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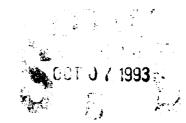
PL-TR-93-1009 Vol. III

NORWAY/UNITED STATES DESIGN PROTECTIVE AIRCRAFT SHELTER (PAS) QUANTITY-DISTANCE PROGRAM 1/3-SCALE TEST SERIES

Volume III of V Appendix B: PAS-3

Edward H. Bultmann, Jr. Bruce A. Schneider

New Mexico Engineering Research Institute The University of New Mexico Albuquerque, NM 87131-1376



August 1993

Final Report

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PHILLIPS LABORATORY
Advanced Weapons and Survivability Directorate
AIR FORCE MATERIEL COMMAND
KIRTLAND AIR FORCE BASE, NM 87117-5776

93-23401

This final report was prepared by the New Mexico Engineering Research Institute, Albuquerque, New Mexico, under Contract F29601-87-C-0001, Job Orders 41181599 and NORWAYYA, with the Phillips Laboratory, Kirtland Air Force Base, New Mexico. The Laboratory Project Officer-in-Charge was Aaron Perea (WSSD).

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FOR THE COMMANDER

AARON PEREA

Project Officer

BRENDAN B. GODFREY, ST

Director, Advanced Weapons and Survivability Directorate

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PREFACE

This report was prepared by the New Mexico Engineering Research Institute (NMERI), The University of New Mexico, under Subtask 2.33 of Contract F29601-87-C-0001, with the Phillips Laboratory, Kirtland Air Force Base, New Mexico. The Norwegian/US Aircraft Shelter Quantity-Distance Program under which this test program was conducted was cosponsored by the United States and the Kingdom of Norway. The 1/3-scale aircraft shelter models were designed, constructed, instrumented, and tested by NMERI.

The Phillips Laboratory Program Manager and Subtask Officer for this subtask was Capt Mike Ulshafer of PL/WSB. The Phillips Laboratory Technical Coordinator was Aaron Perea. Arfin Jenssen was the Norwegian Technical Advisor/Coordinator. Dr. Edward H. Bultmann, Jr., of NMERI was the Principal Investigator for the subtask. Bruce Schneider of NMERI was the Alternate Principal Investigator for this subtask. Jon A. Kirst was the Instrumentation Engineer, Curtis Burnett was the Lead Construction (Field) Technician for this subtask. Jesse Martinez was the Lead Instrumentation Technician.

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1.0 PAS-3 ELECTRONIC INSTRUMENTATION, DATA PLOTS

The PAS-3 measurements are listed in Table B-1. The locations of the various onstructure measurements are shown in Figures B-1 through B-6. The PAS-3 data plots are presented in sequential order by measurement number. The measurement number is centered below the plot; that is, PAS-3 *** 0101 *** refers to measurement number (MN) 0101. A measurement may have several plots of different vertical scales or time domains; for example, MN 0101 has both 50 and 100 ms plots. Measurement numbers with the prefix 9 are redundant recordings of gages. For example, MN 9003 is a redundant recording of MN 0003.

Table B-1. List of measurements, PAS-2.

TEST EUCHT						<i>r</i> .				LATE 25 NIAR 92	DACK 1 OF 4 PAGES	F 4 PAGES	
	PAS-3	3						8	KIRST				
MEAS	1001	LOCATION		SENS	PRED	CONL	TRANSDUCER	CER	TRANSDUCER	TRANSDUCER		CHANGES	
NO. BEN	XX	¥λ	78	AXIS	нөх	LEVEL	MODEL	RANGE	TYPE	SERIAL NUMBER	ITEH	AUTH	DATE
					0.689	20	KULITE						
0101-3 SF	12807	О	367	7	MPa	%	XT-190	1.379 MPa	PRESSURE	(1743-5-181) G7-35			
					10.342	20	KULITE						
0102-3 SF	12807	3700	367	Z	MPa	%	HKS-11-37	34.47 MPa	34.47 MPa PRESSURE	4319-2-17			
RDT					3.447	100	KULITE						
0102-3 SF	12807	3700	367	7	MPa	%	HKS-11-37		34.47 MPa PRESSURE	4319-2-17			
					3.447	20	KULITE						
0202-3 BW	7 13010	1700	1475	×	MPa	%	XT-190	6.895 MPa	6.895 MPa PRESSURE	(1906-3-340) F8-40			
					2.068	50	KULITE						
0301-3 SF	3976	0	367	Z	MPa	%	XT-190	13.79 MPa	13.79 MPa PRESSURE	(986-2-25) V6-48			
					1.724	20	KULITE						
0302-3 SF	3976	1850	367	7	MPa	%	XT-190	3.447 MPa	PRESSURE	3.447 MPa PRESSURE (1862-4-100) F7-91			
					2.413	20	KULITE						
0303-3 SF	3976	3700	367	Z	MPa	%	XT-190	6.895 MPa	PRESSURE	6.895 MPa PRESSURE (1906-3-297) A8-64			
					2.758	20	KULITE						
0402-3 FD	498	100	1475	×	MPa	%	XT-190	6.895 MPa	PRESSURE	(1862-2-280) L7-3			
			_		10.342	9.91	KULITE						
0501-3 SF	645	3700	367	Z	MPa	%	HKS-11-37	34.47 MPa	34.47 MPa PRESSURE	5246-5-5			
RDT					3.447	<u>6</u>	KULITE						
0501-3 SF	645	3700	367	7	MPa	3%	HKS-11-37	34.47 MPa	34.47 MPa PRESSURE	5246-5-5			
				_	6.895	20	KULITE		(Filter)				
0601-3 SF	6818	1850	367	Z	MPa	%	HKS-11-37	13.79 MPa	PRESSURE	6.6-201			
					5.171	20	KULITE						
0602-3 SF	. 6818	3700	367	Z	MPa	%	XT-190	13.79 MPa	13.79 MPa PRESSURE	(1944-5-156) C8-4			
NOTES: N	* = Distance in millimeters	ın mı	1 neters		4S = 3S	SC = Shelter Ceiling	puling	i					
JS.	SF = Shelter Floor	Floor			F0 = Fr	FO = Front Door							_
100	I = Redundant	ant			BII = Backual	ckuall			i				

Table B-1. Continued.

				MEAS	SUREMENT	TENT L	LIST				ONE 25 MAR 92	PAGE 2 OF 4 PAGES	4 PAGES	
TEST EVENT			PAS-3						190	KIRST				
MEAS		LOCATION	10X		SENS	DAEO	CONF	TRANSOUCER	ICER	TRANSDUCER	TRANSDUCER		CHANGES	
Š	BEN	X.	Υ¥	Z#	AXIS	MAX	LEVEL	HODEL	CANGE	TYPE	SERIAL NUMBER	ITEM	AUTH	DATE
						5.171	20	KULITE						
0603-3	SF	6818	-3700	367	Z	MPa	%	XT-190	13.79 MPa	PRESSURE	(1944-4-143) W7-52			
						27.579	90	KULITE		(Filter)				
0604-3	sc	6818	0	2717	Z	MPa	%	HKS-11-37	68.95 MPa	PRESSURE	2491-3-14			
		i				48.264	20	KULITE						
0701-3	田	-9000	0	350	7	кРа	%	XT-190	172.4 kPa	PRESSURE	172.4 kPa PRESSURE (4073-4-166) M18-58			
						27.579	20	KULITE						
0702-3	FF	-24000	0	350	7	kPa	%	XT-190	68.95 kPa	PRESSURE	(3827-4-19) L18-92			
						17.237	20	KULITE						
0703-3	出	-34000	0	350	7	kPa	%	XT-190	34.47 kPa	PRESSURE	(1491-2-4) U6-16			
						6.895	8	ENDEVCO						
0704-3	开	-44000	0	350	2	kPa	%	8510B	13.79 kPa	PRESSURE	RF86			
						3.447	0\$	ENDEVCO						
0705-3	臣	-54000	0	350	Z	kPa	%	8510B	13.79 kPa	PRESSURE	C93M			
						41 369	09	KULITE						
0706-3	出	-6233	10800	350	Z	kPa	%	XT-190	68.95 kPa	PRESSURE	(3827-4-17) L18-91			
						27.579	0\$	KULITE						
0707-3	出	-16433	21000	350	2	kPa	%	XT-190	68.95 kPa	PRESSURE	(2650-2-110) X8-16			
						17.237	20	KULITE						
0708-3	出	-23433	28000	350	Z	kPa	%	XT-190	34.47 kPa	PRESSURE	(1495-7-76) K7-6			
						6.895	20	ENDEVCO						
0709-3	丑	-30433	3500c	350	Z	kPa	%	8510B	13.79 kPa	PRESSURE	RF69			
		i				68.948	0\$	KULITE						
0710-3	FF	6818	6818 12000	350	Z	kPa	%	XT-190	172.4 kPa		PRESSURE (4073-4-164) M18-57			
NOTES:	===	# = Distance in millineters	n milli	neters		- 72	SF = Shelter Floor	Floor						
	<u>"</u>	FF = Free Field	10											
	: US	= Shelter Ceiling	erling											
	Ì													

Table B-1. Continued.

1 !			MEASUREN	UREN	MENT LIST	IST				DATE 25 MAR 92	PAGE 3 OF 4 PAGES	X 4 PAG	8
		PAS-3						9 <u>1</u>	KIRST				
7007		LOCATION		SENS	DACO	SON	TRANSDUCER		TRANSDUCER	TRANSDUCER		CHANGES	
GEN X#		Υ×	2.8	AXIS	MAX	LEVEL	1300H	RANGE	TYPE	SERIAL NUMBER	IIEM	₹	DATE
	i e				17.237	20	KULITE						
FF 6818	00	40000	350	Z	kPa	%	XT-190	34.47 kPa	PRESSURE	(1495-6-94) K7-1			
			-		6.895	20	ENDEVCO						
FF 6818	∞	50000	350	Z	kPa	%	8510B	13.79 kPa	PRESSURE	RF77			
					62.053	20	KULITE						
FF 17041	4	8000	350	Z	kPa	%	XT-190	172.4 kPa	PRESSURE	(4073-4-163) M18-56			
	1				41.369	8	KULITE						
FF 19841	7	10800	350	Z	kPa	%	XT-190	68.95 kPa	PRESSURE	(2650-2-111) X8-20			
					27.579	20	KULITE						
FF 30041	41	21000	350	2	kPa	%	XT-190	68.95 kPa	PRESSURE	(3827-4-20) L18-93			
i 					48.264	80	KULITE						
FF 23	23000	0	350	Z	kPa	%	XT-190	172.4 kPa	PRESSURE	(4073-4-130) M18-37			
					27.579	20	KULITE						
FF 37	37000	0	350	Z	kPa	%	XT-190	68.95 kPa	PRESSURE	(2907-3-114) K9-35			
					17.237	20	KULITE						
FF 47	47000	0	350	Z	kPa	%	XT-190	34.47 KKP	PRESSURE	(1495-7-75) K7-7			
					6.895	20	ENDEVCO						
FF 57	57000	0	350	Z	kPa	%	8510B	13.79 kPa	PRESSURE	RF60			
					68.948	20	KULITE						
日 6	6818	-12000	350	Z	kPa	%	XT-190	172.4 kPa	PRESSURE	(4073-4-149) O18-39			-
<u> </u>					6.895	20	ENDEVCO						
FF 6	6818	-50000	350	2	kPa	%	8510B	13.79 kPa	PRESSURE	PP49			
					10000	20	ENDEVCO						
SR 6	6818	0	2987	Z	8	%	2264A	20000 g	20000 g ACCELEROMETER	DD46D			
Dist	3UC	# = Distance in millimeters	eters										
FF = Free Field	ي ا	eld											

SR = Structure Roof

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			9EN		Œ		FD		FD	<u>.</u>	FD		FD		FD			1				# = 01S	1 = USu		
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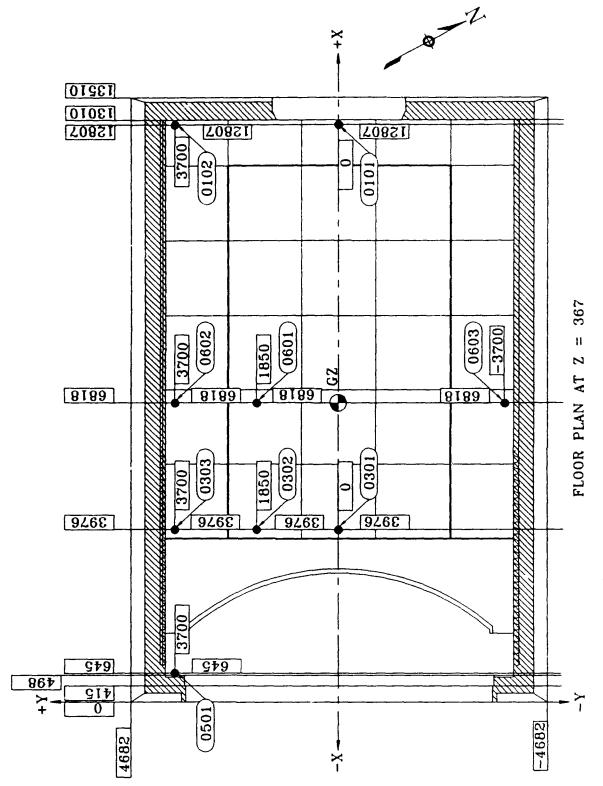


Figure B-1. Instrumentation in floor of structure, PAS-3.

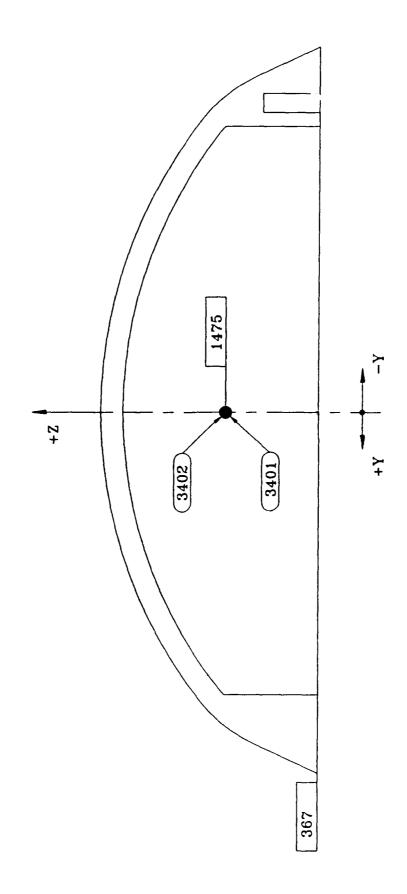


Figure B-2. Instrumentation on outside of front door at X = 415, PAS-3.

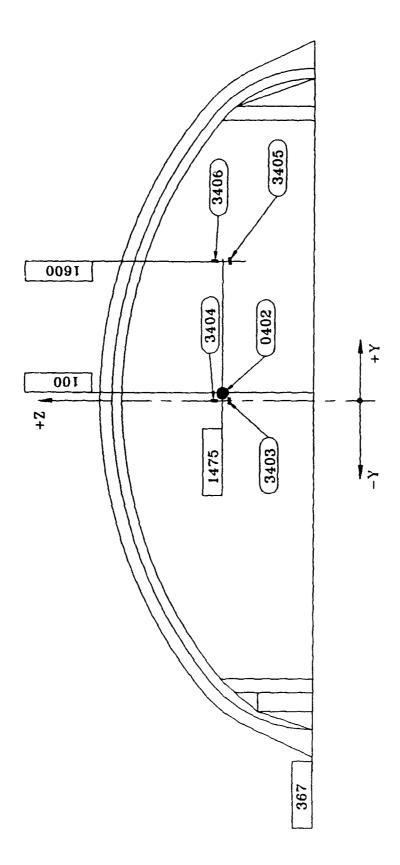


Figure B-3. Instrumentation on inside surface of front door at X = 498, PAS-3.

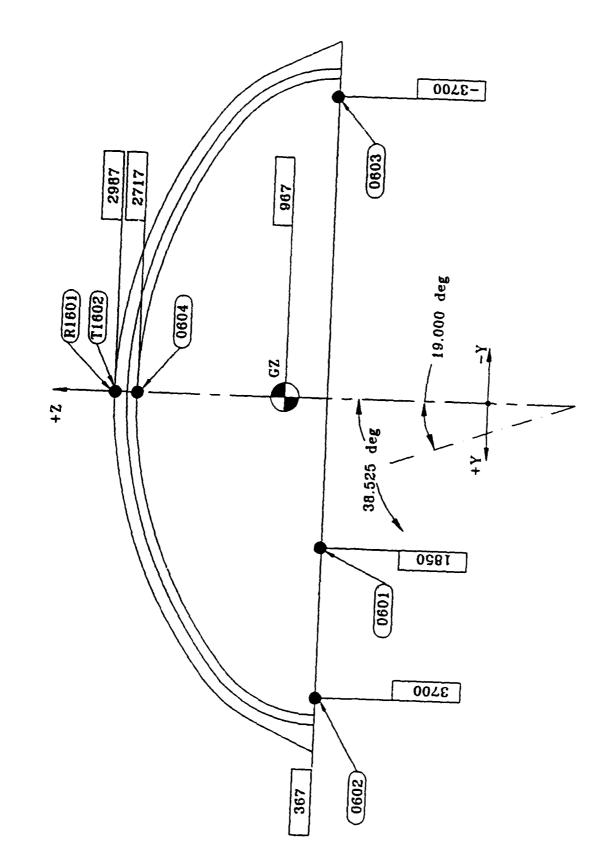


Figure B-4. Instrumentation on arch at X = 6818, PAS-3.

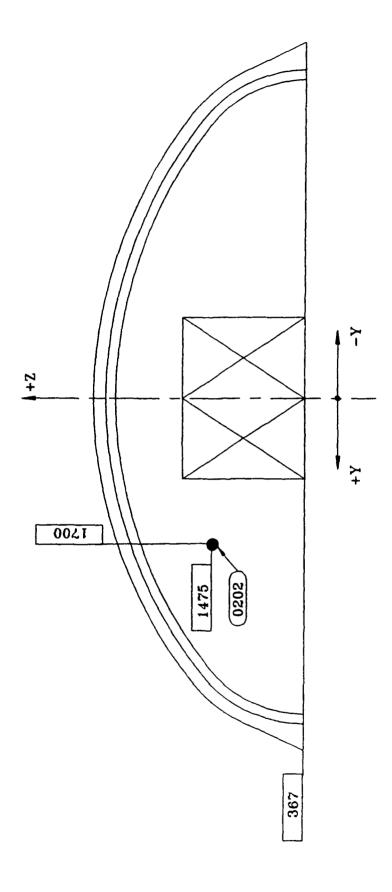


Figure B-5. Instrumentation on inner surface of backwall at X = 13010, PAS-3.

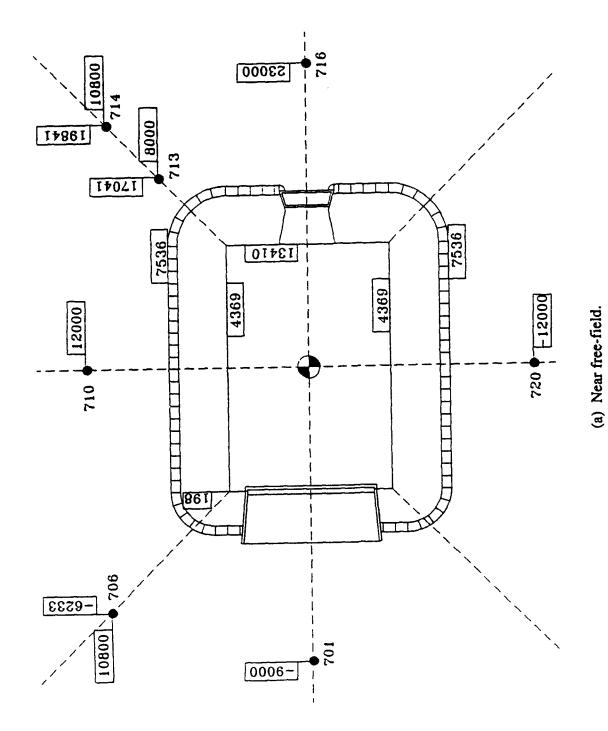


Figure B-6. Free-field airblast gage locations, PAS-3.

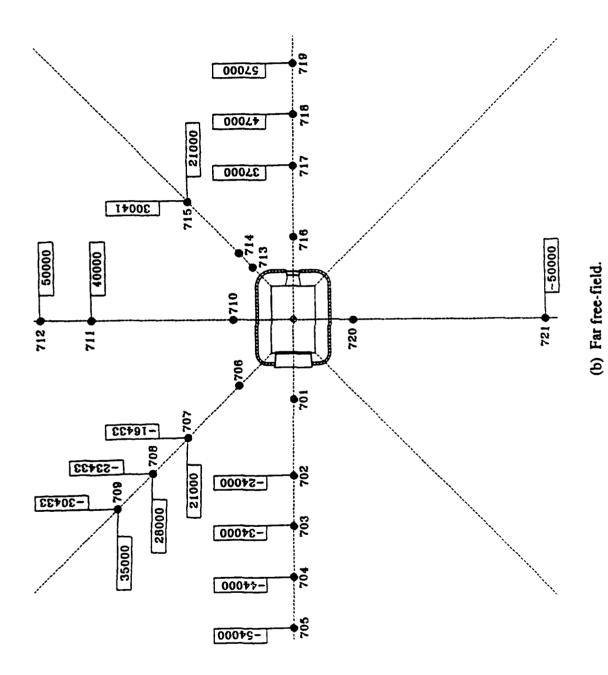
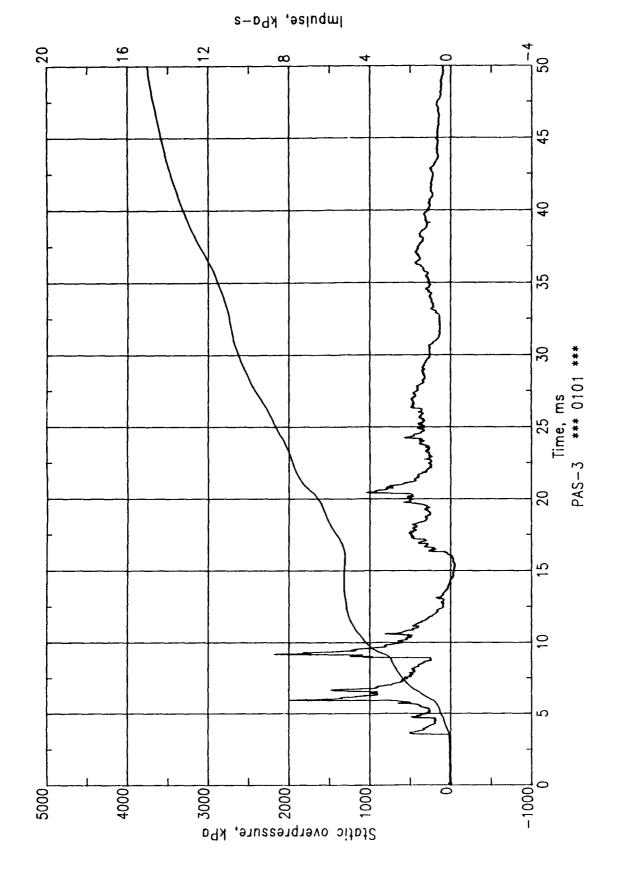
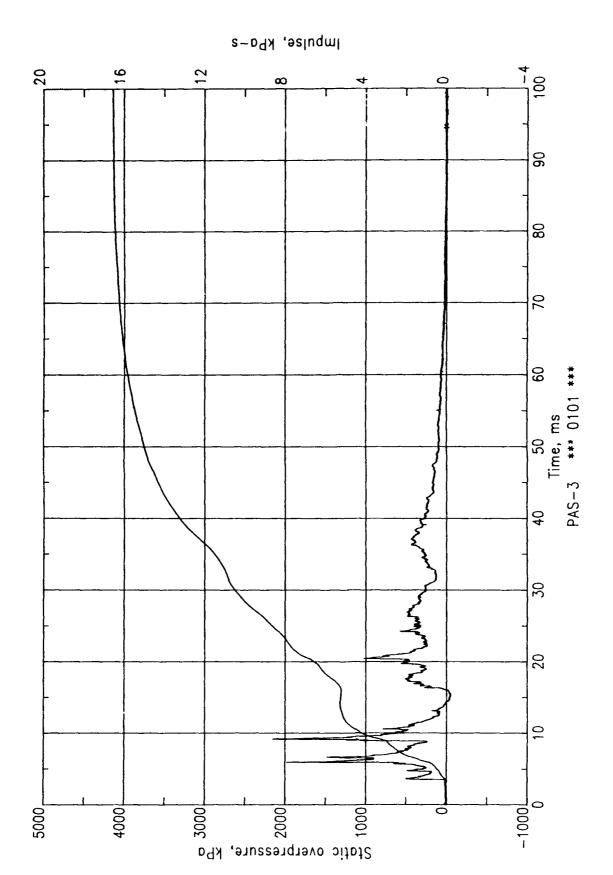
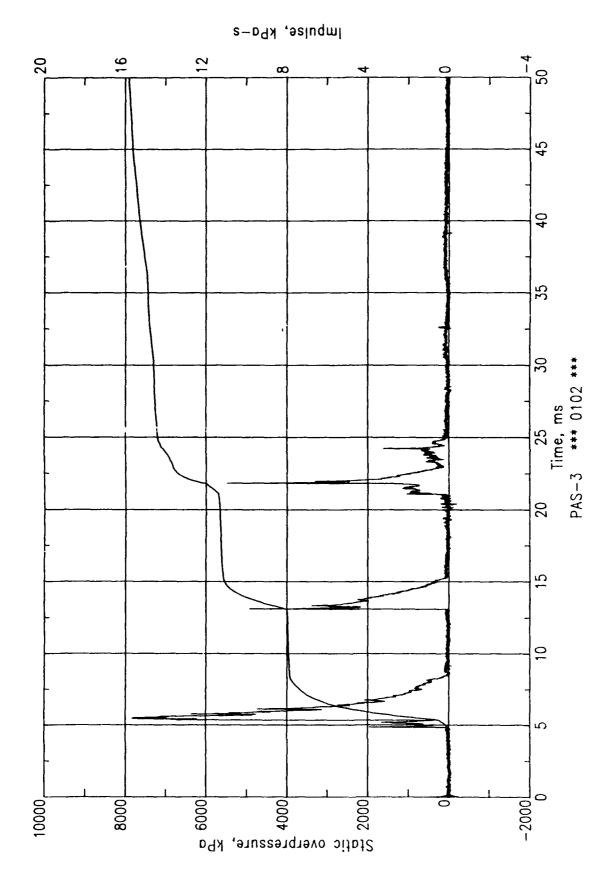


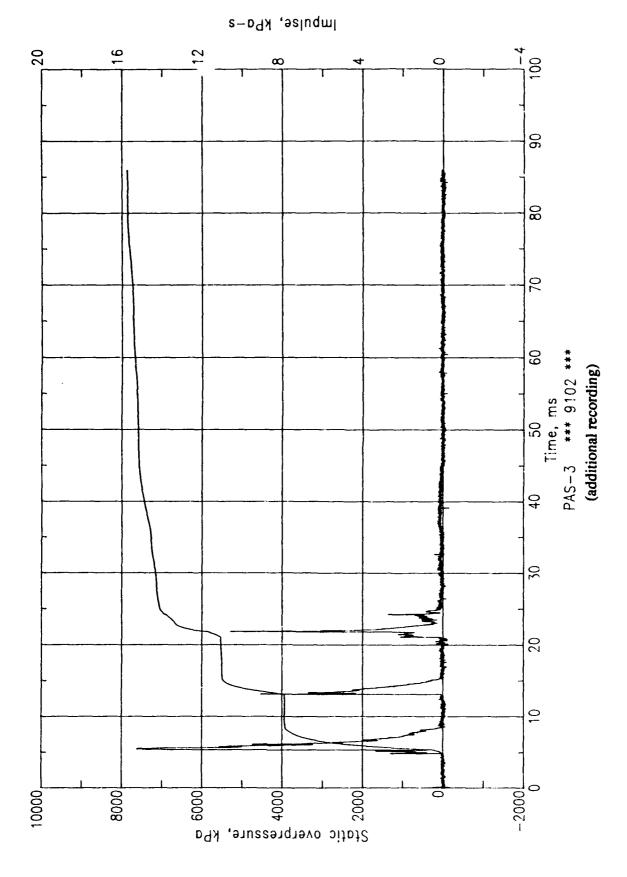
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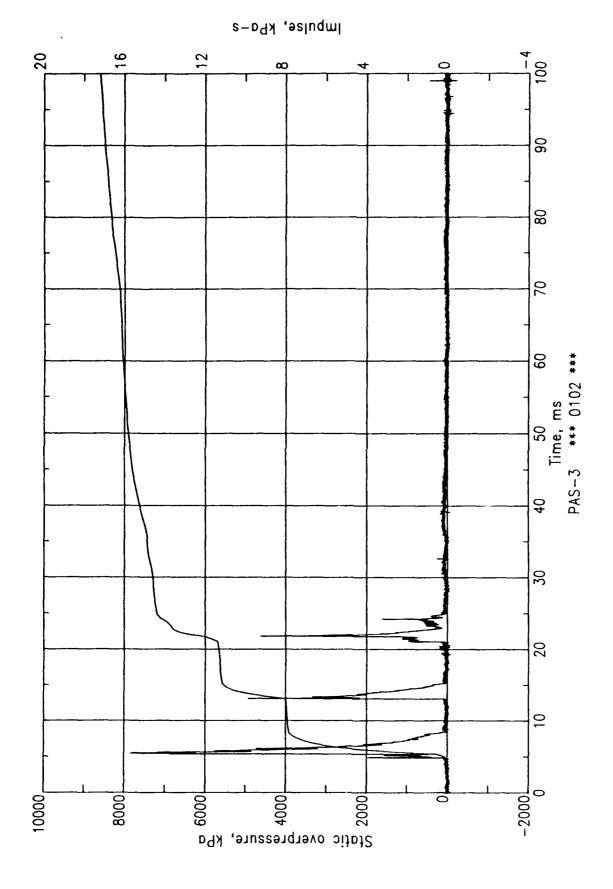


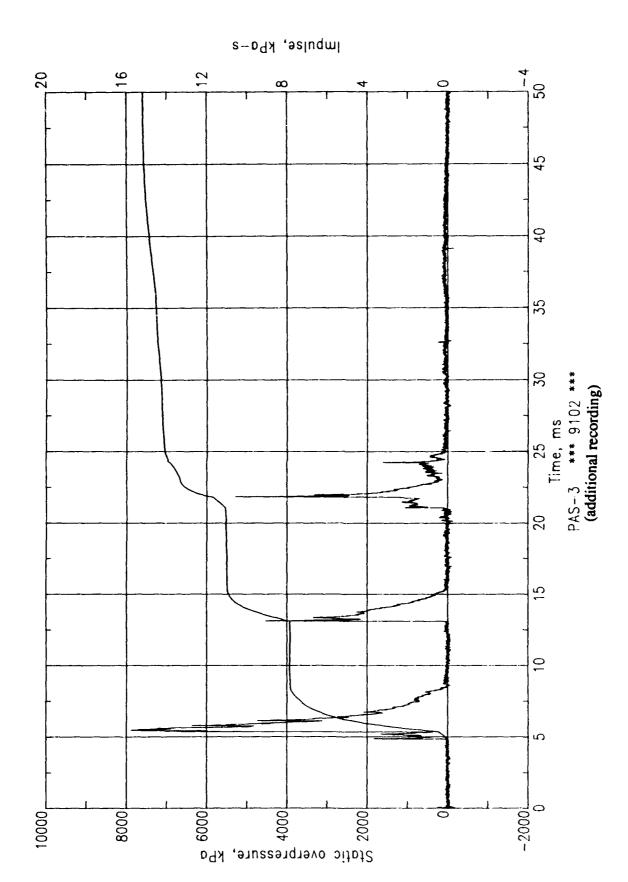


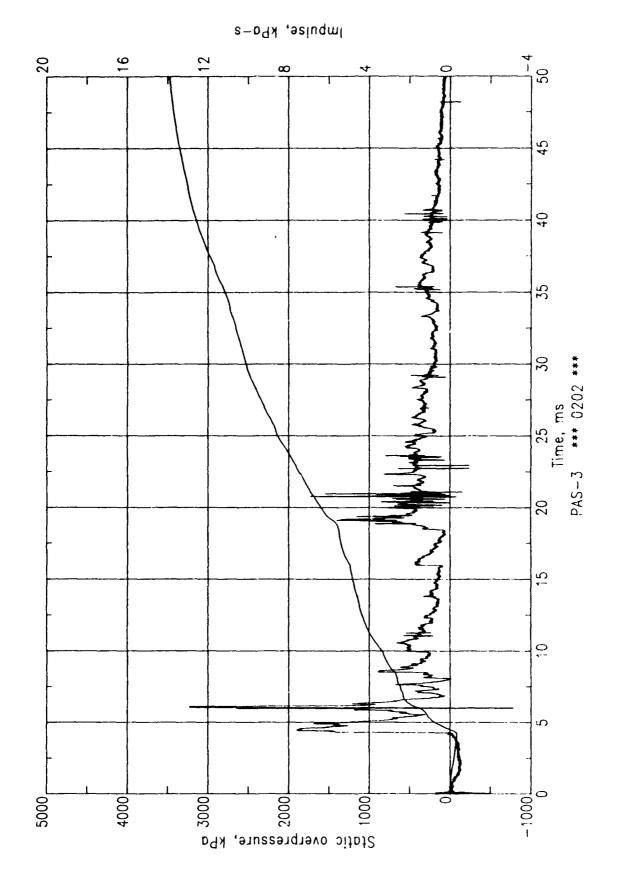


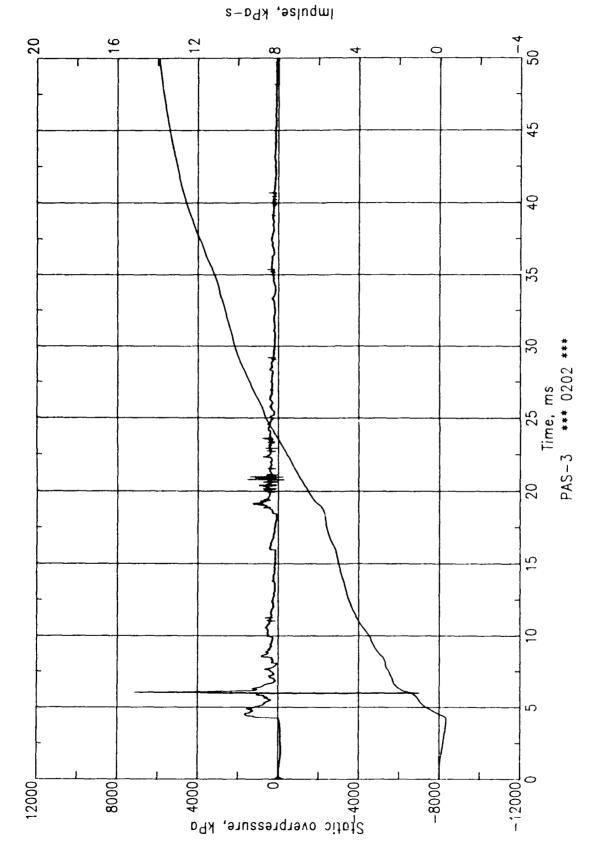


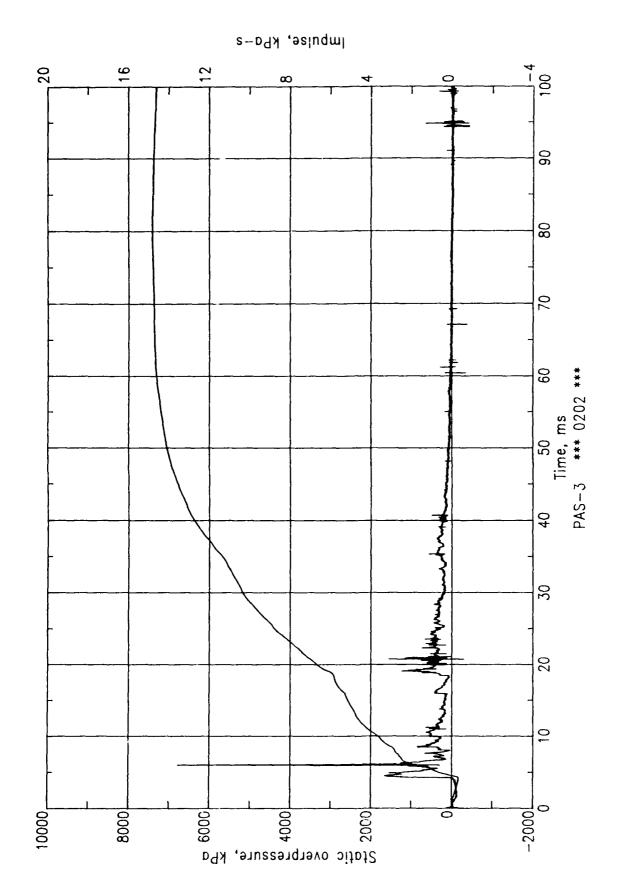


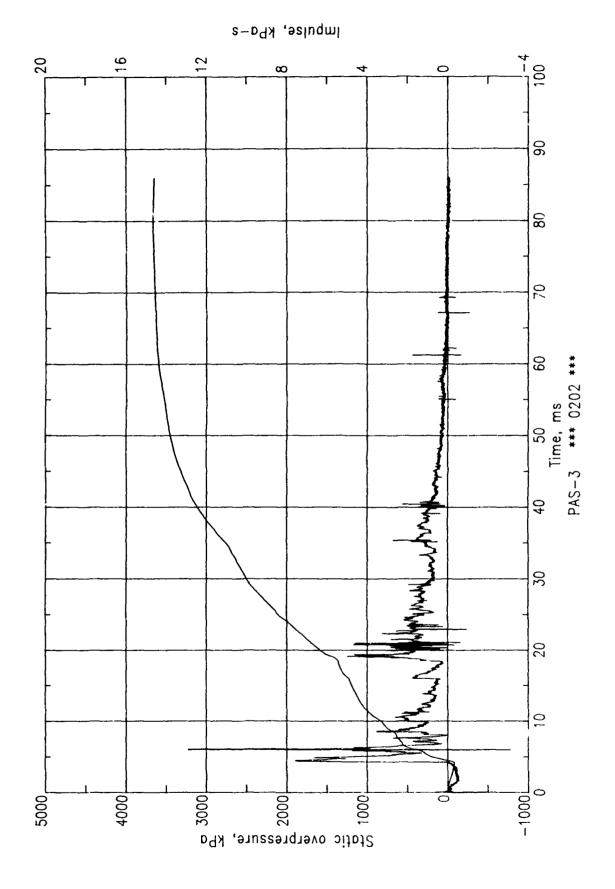


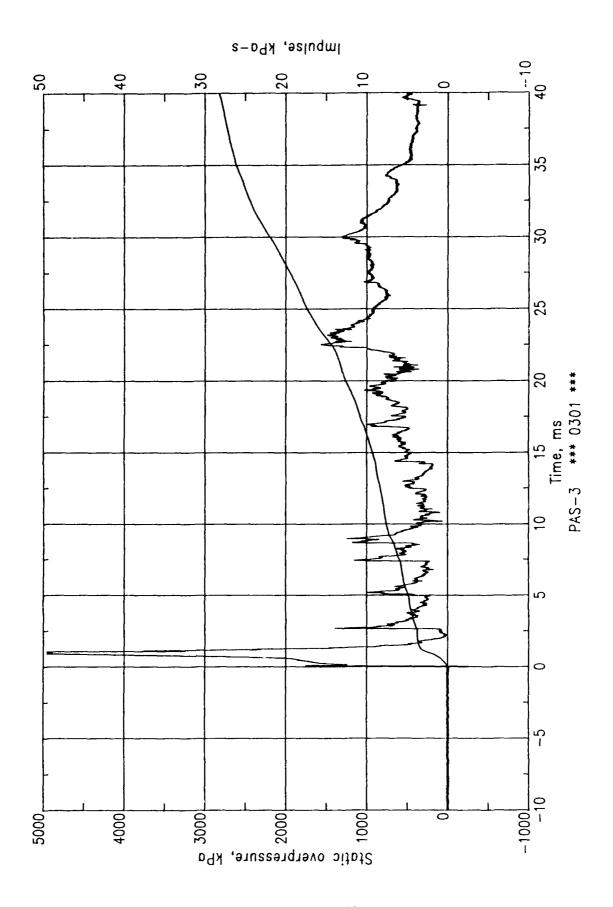


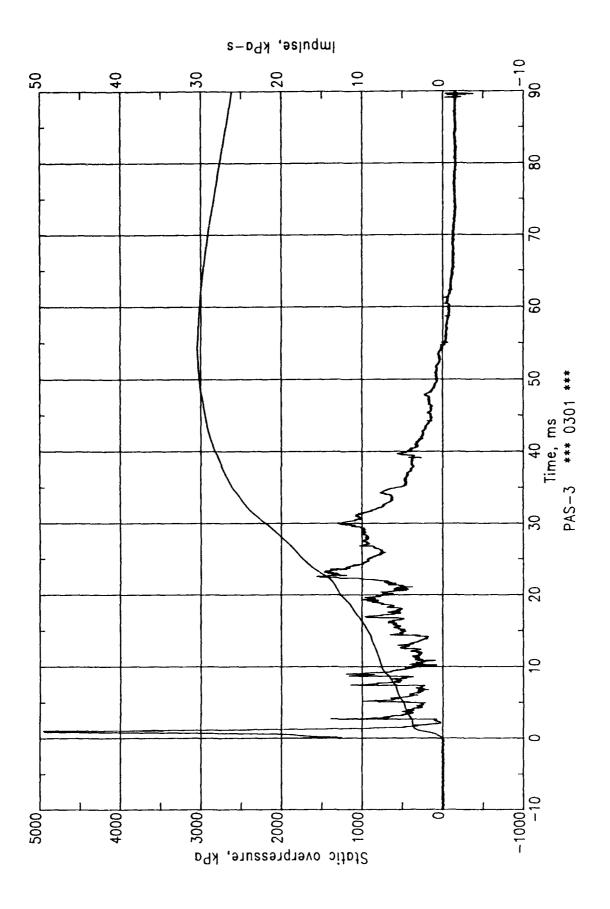


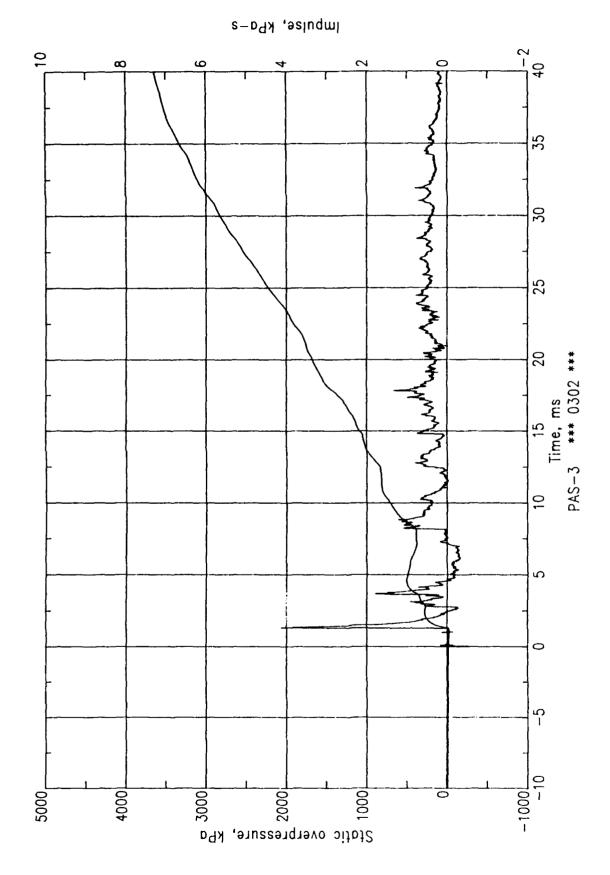


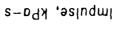


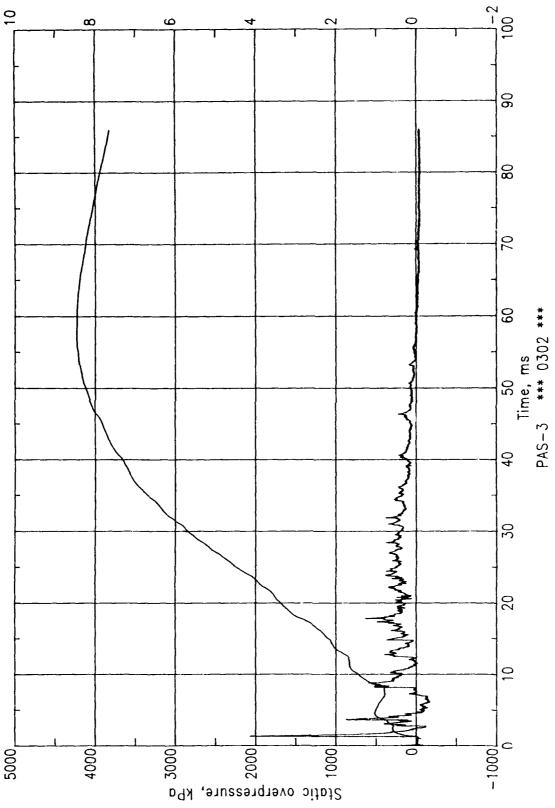












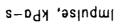
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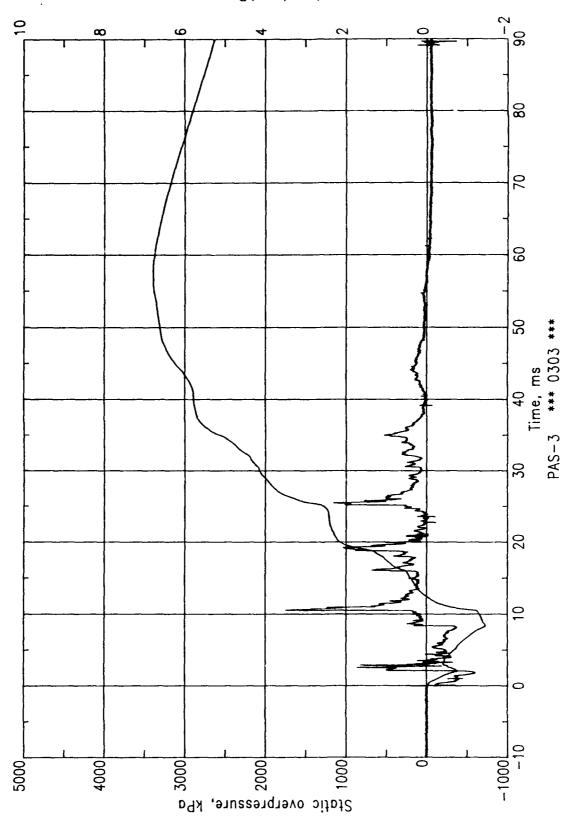
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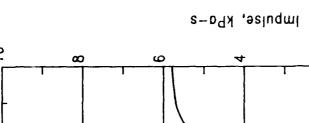


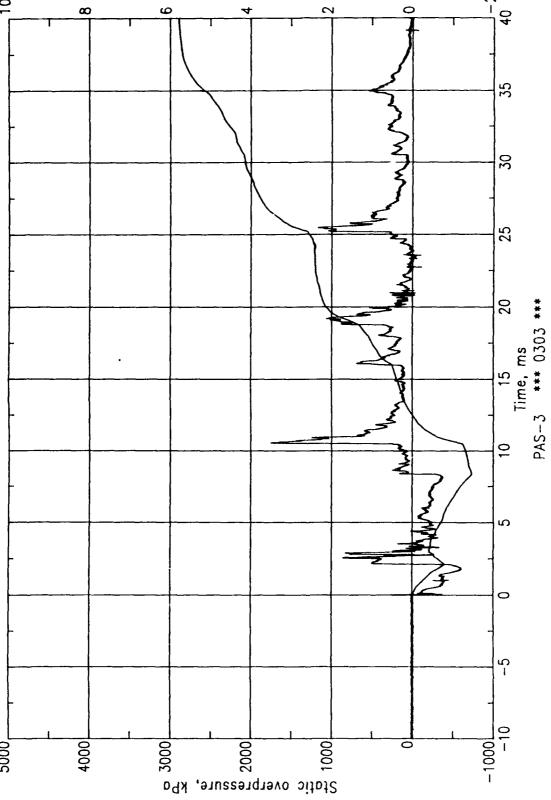
Static overpressure, kPa

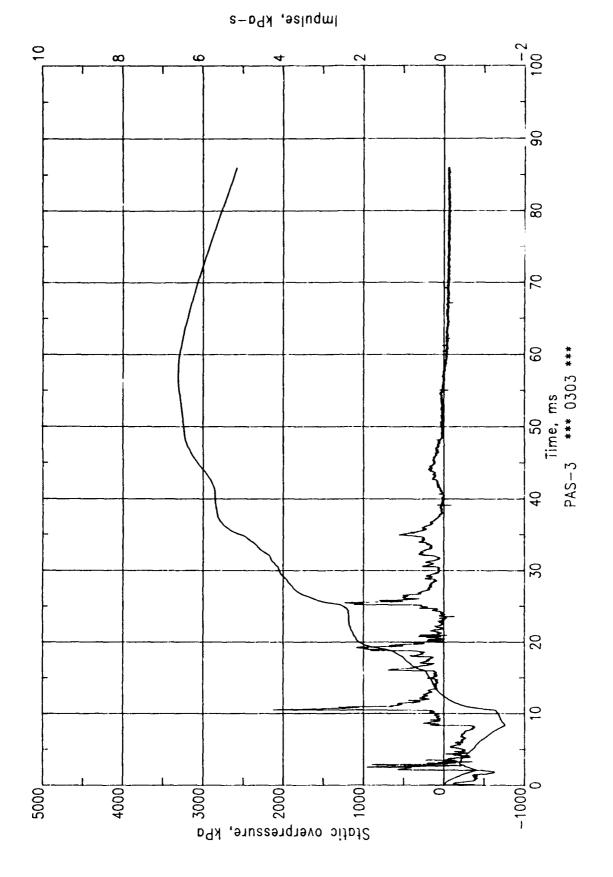
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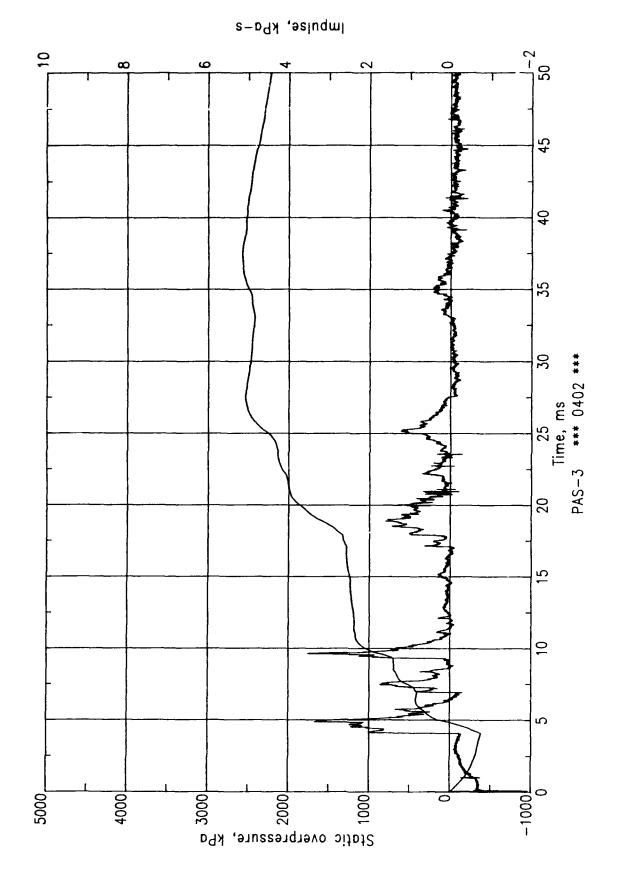


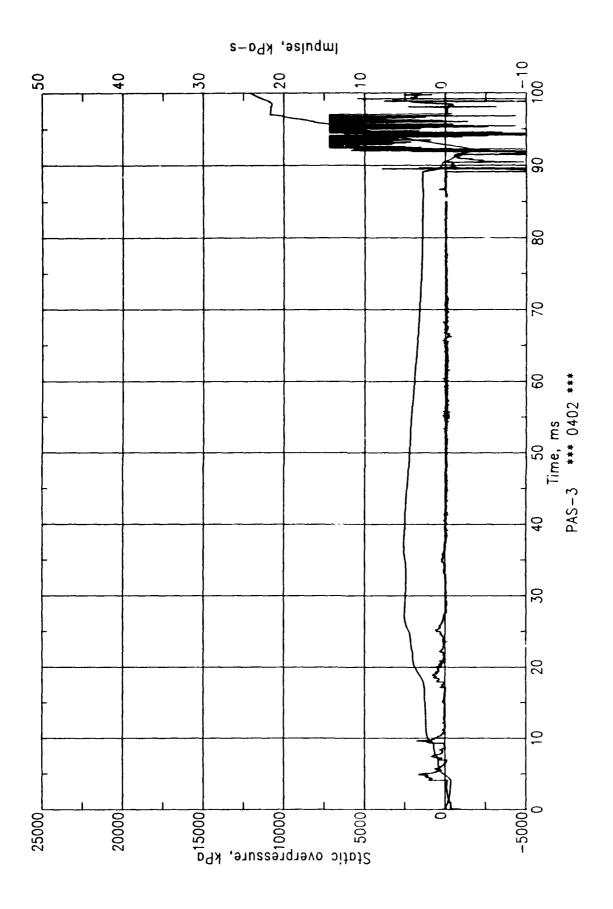


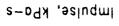


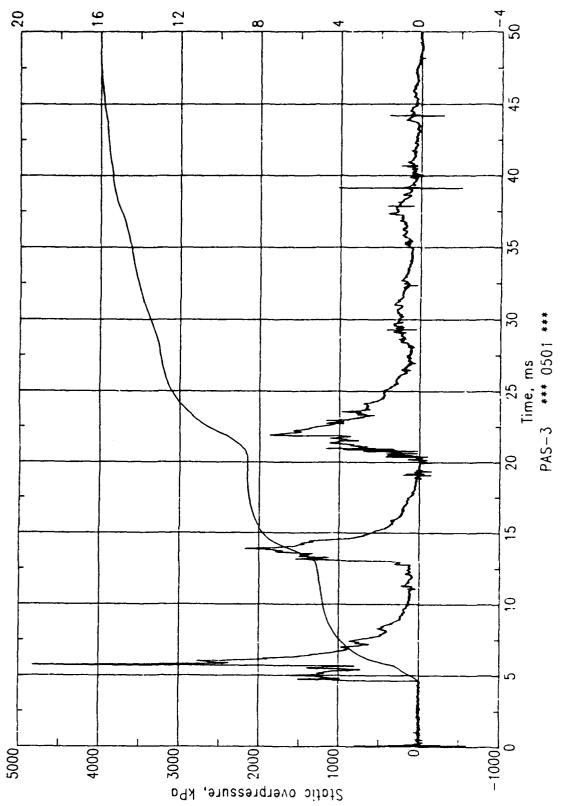


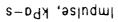


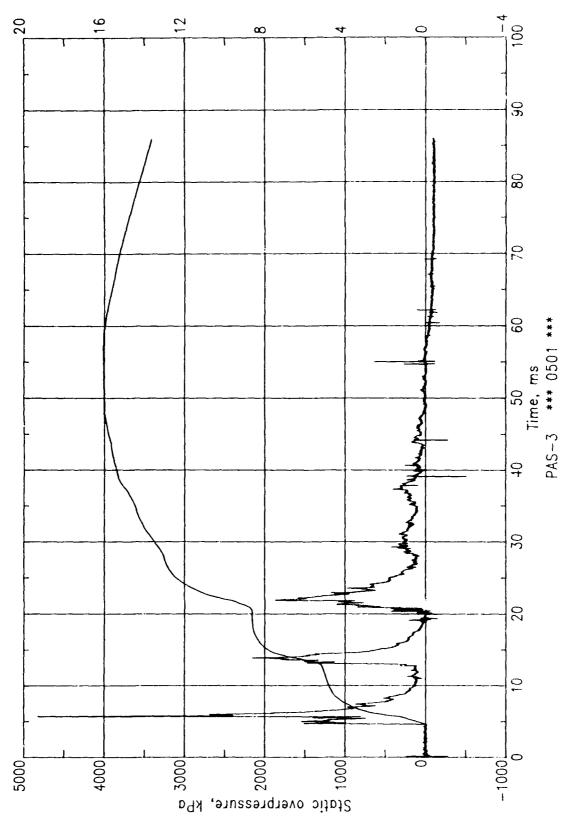




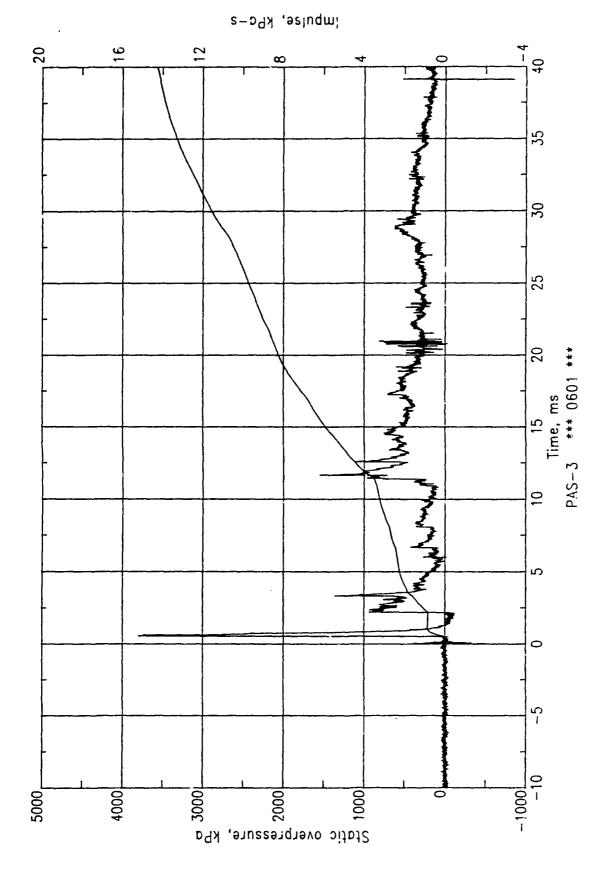


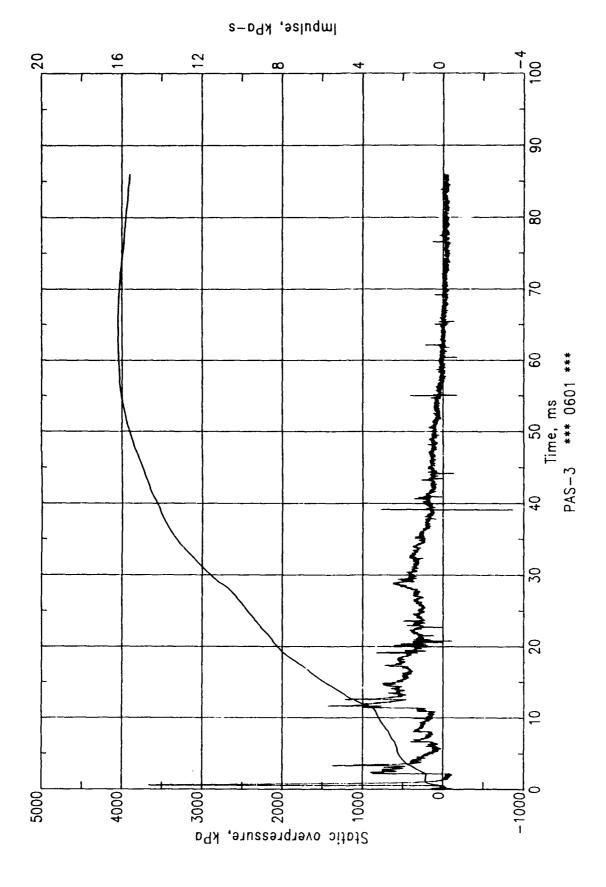


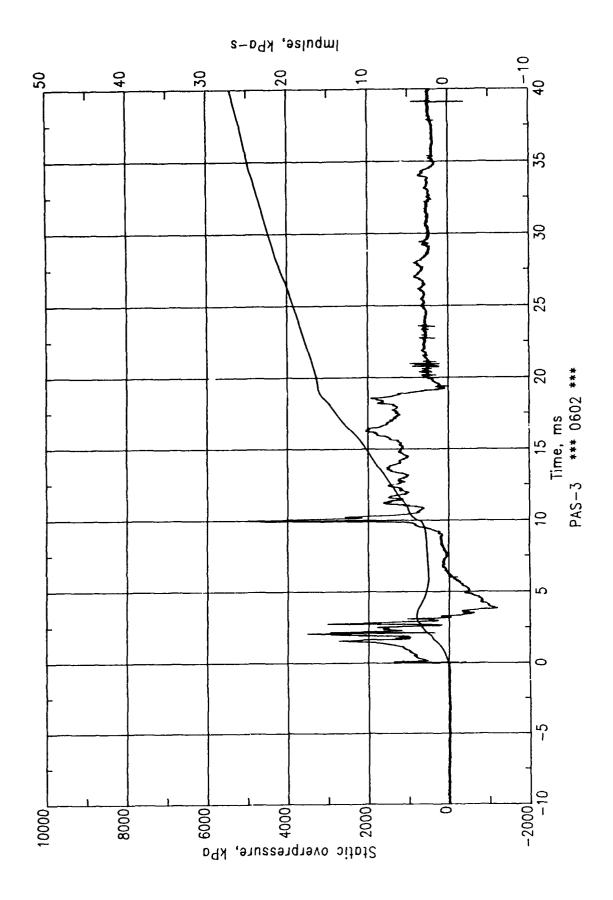


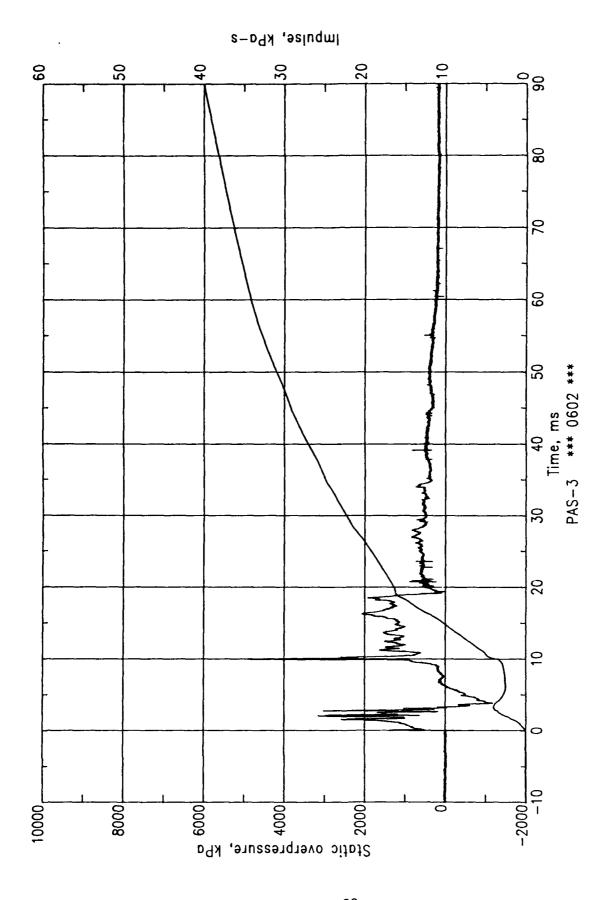


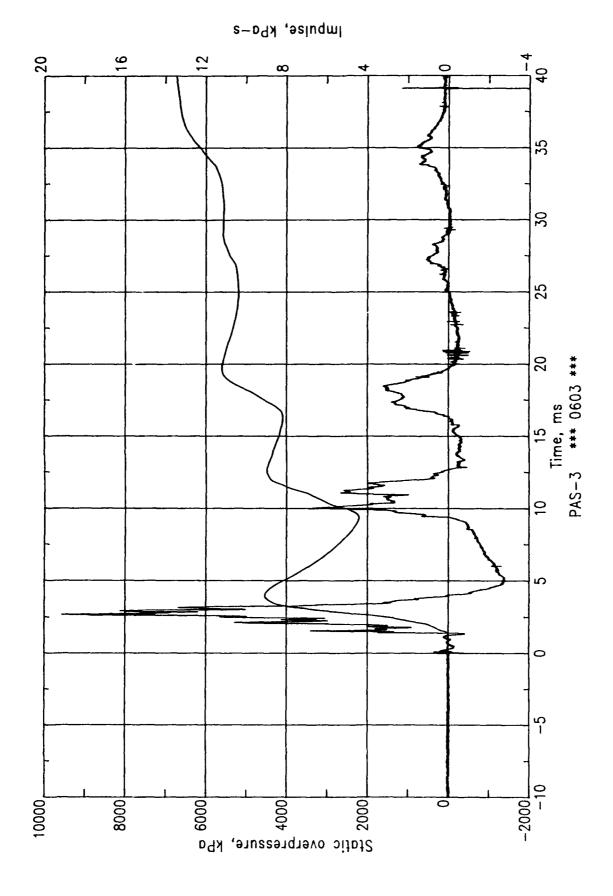


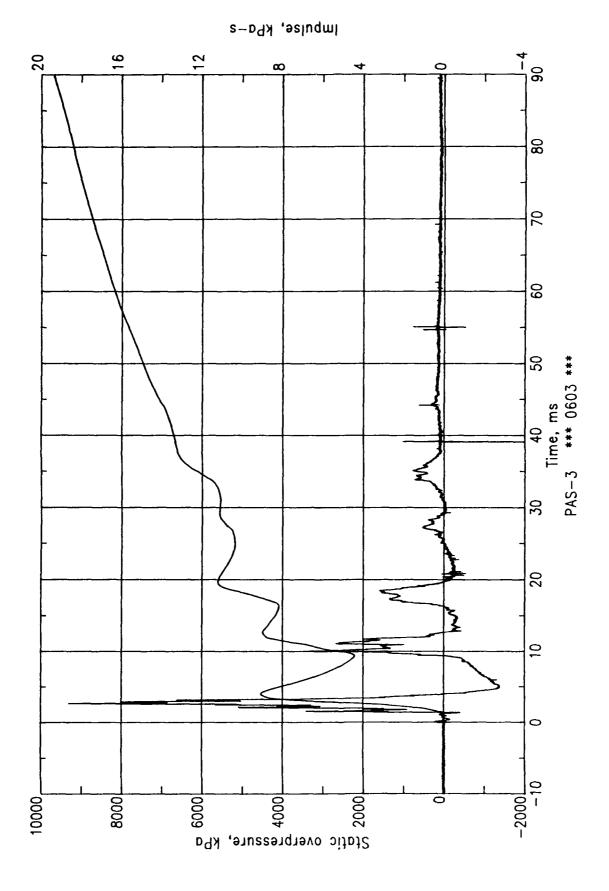


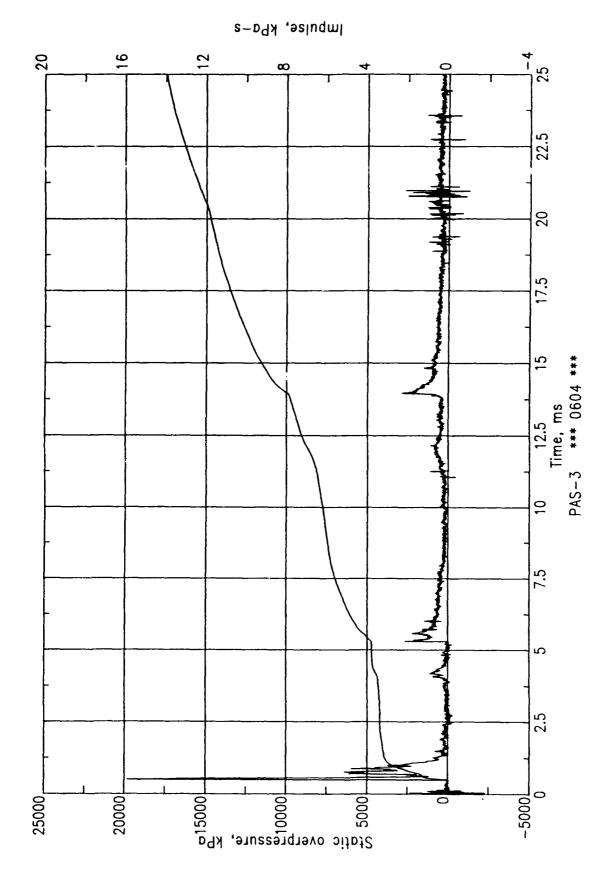


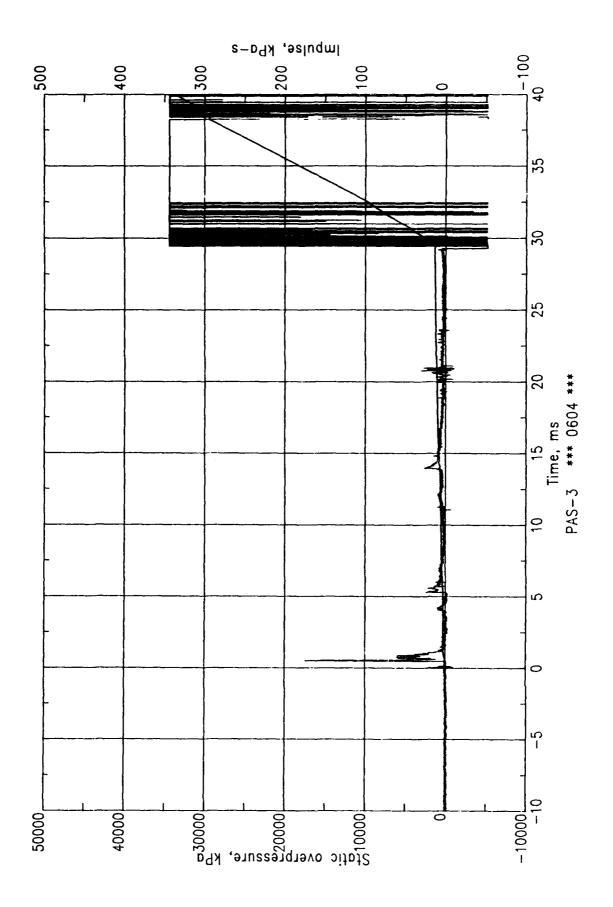


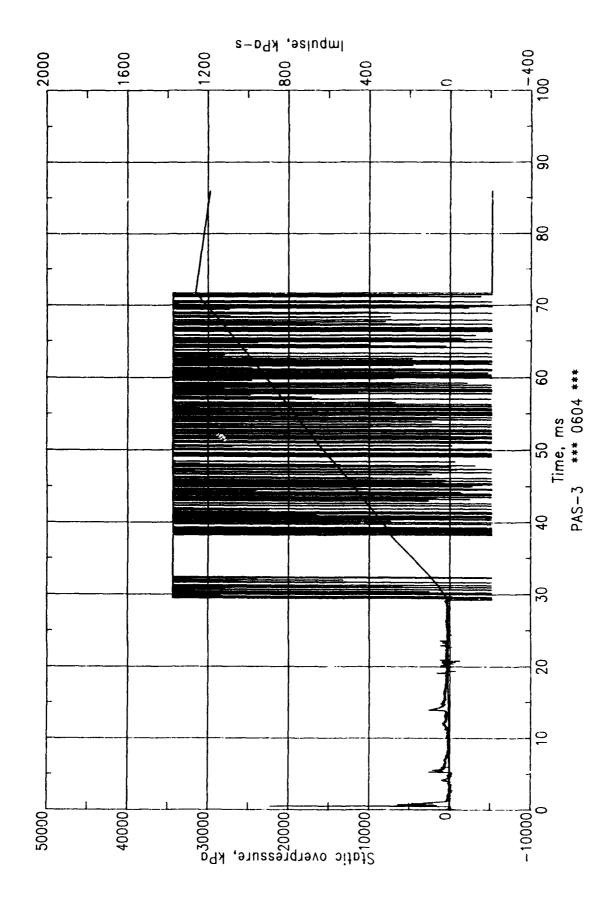


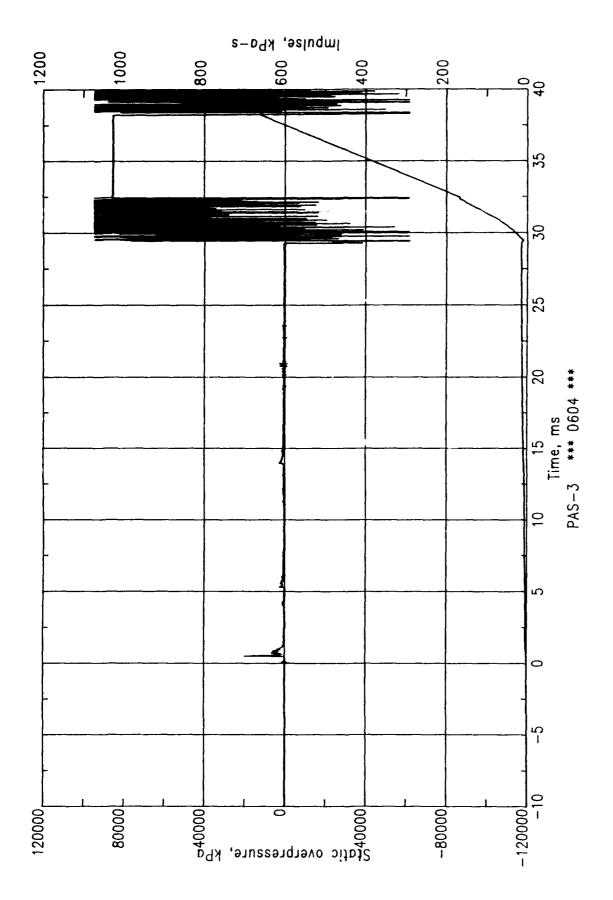


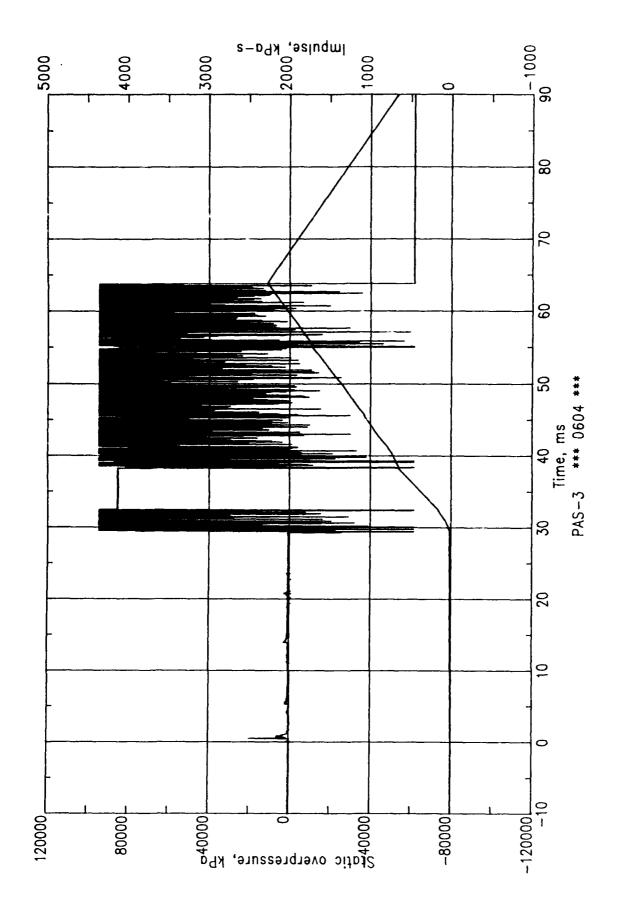


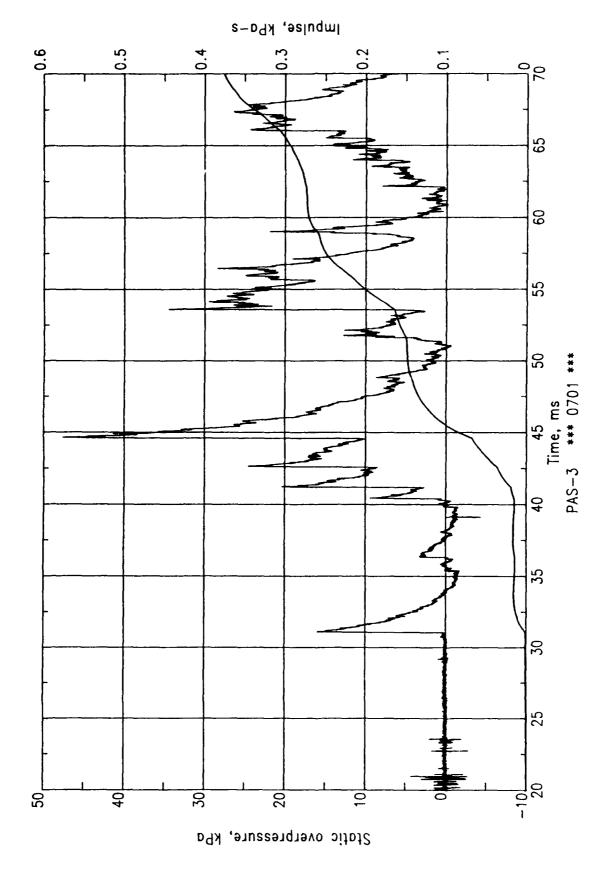




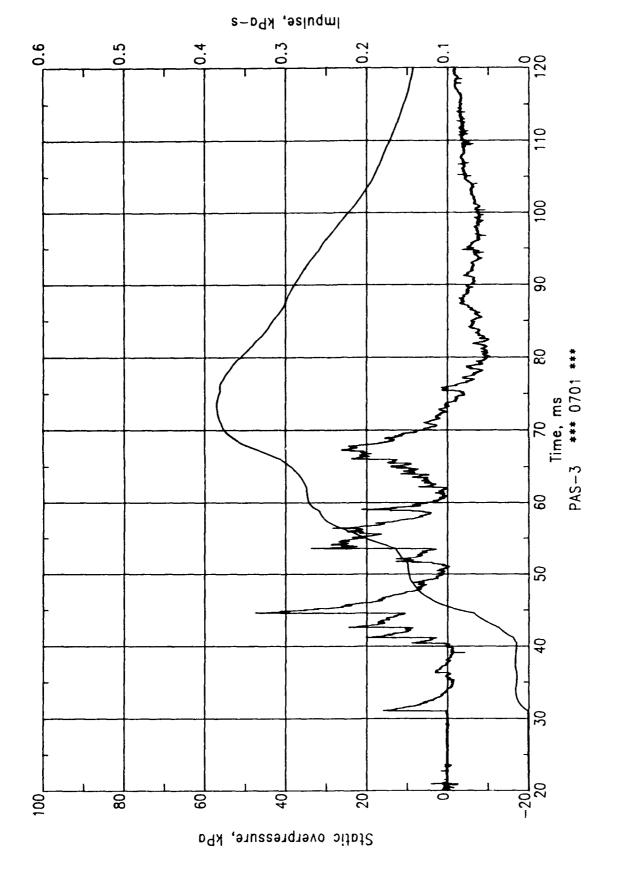


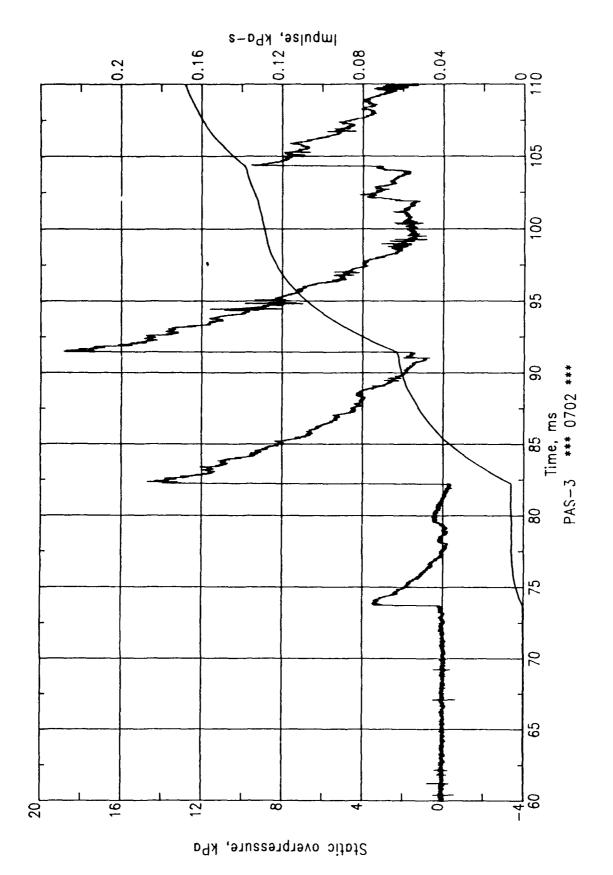


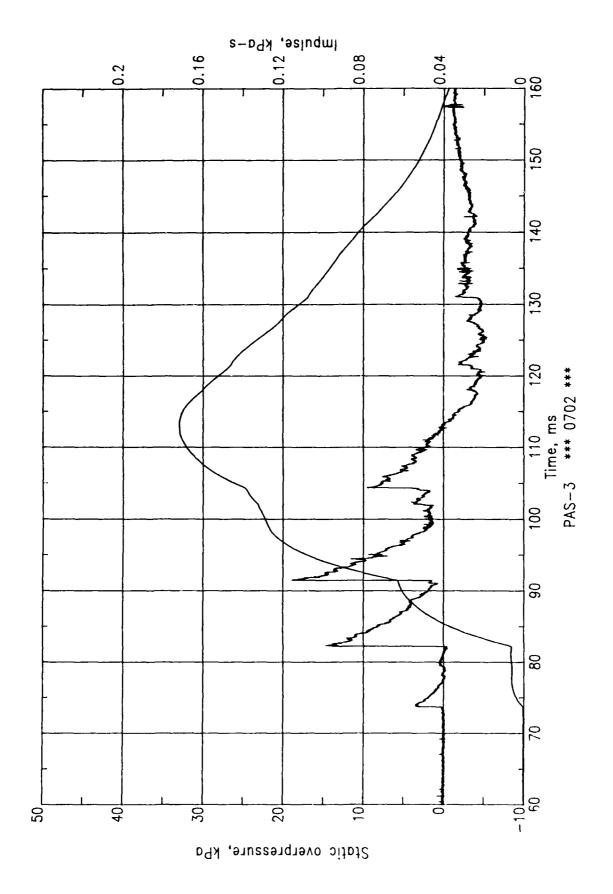




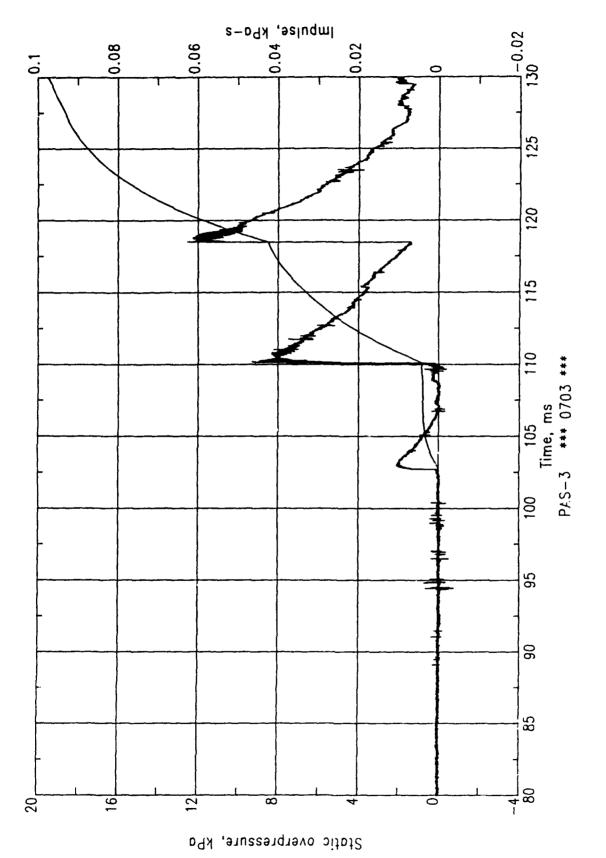




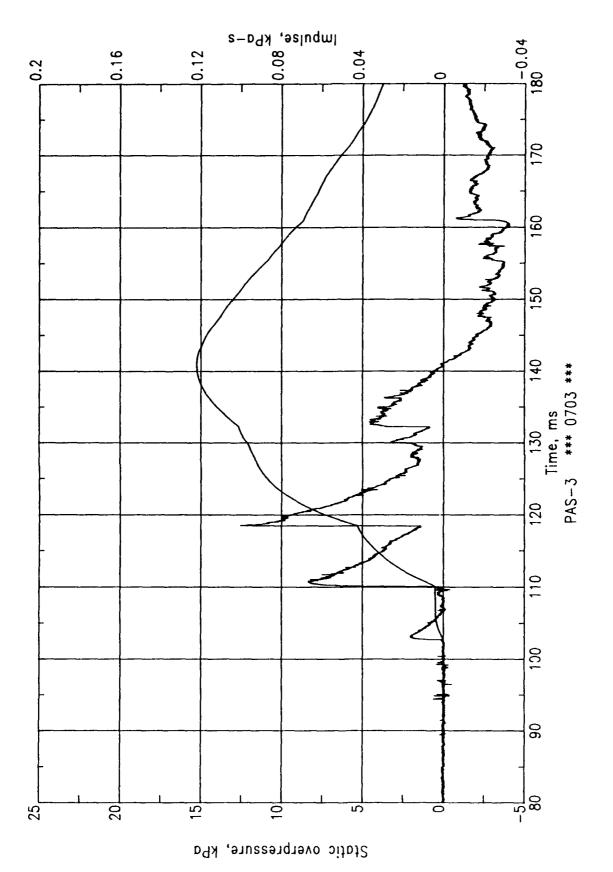




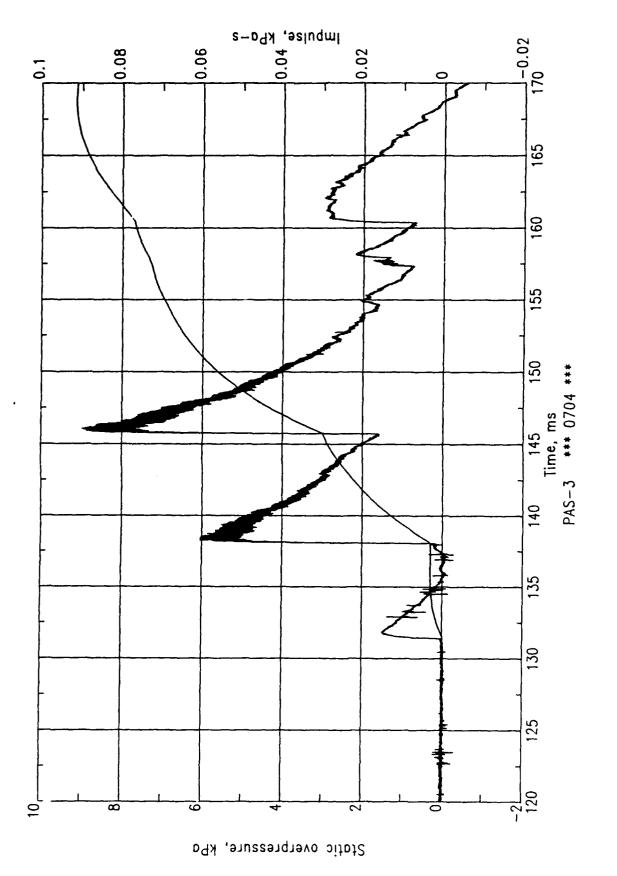




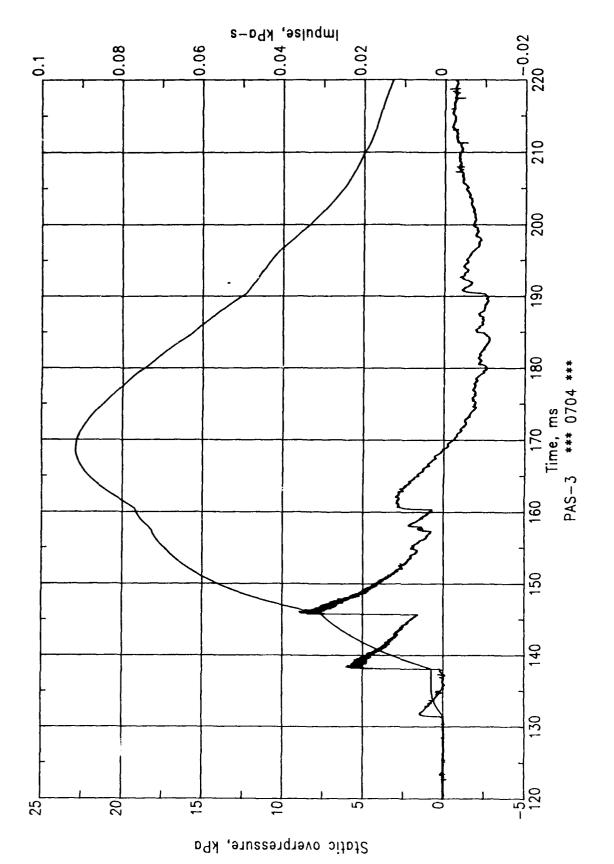




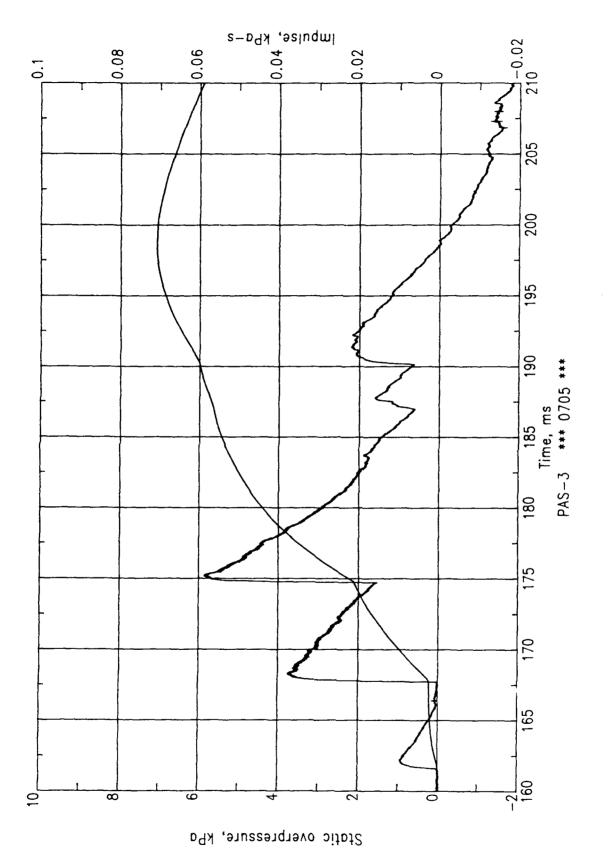




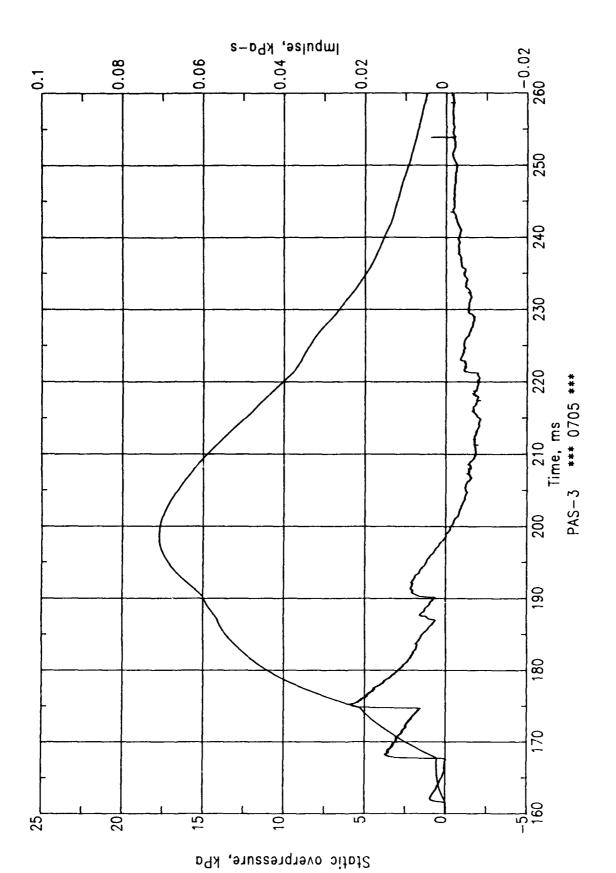


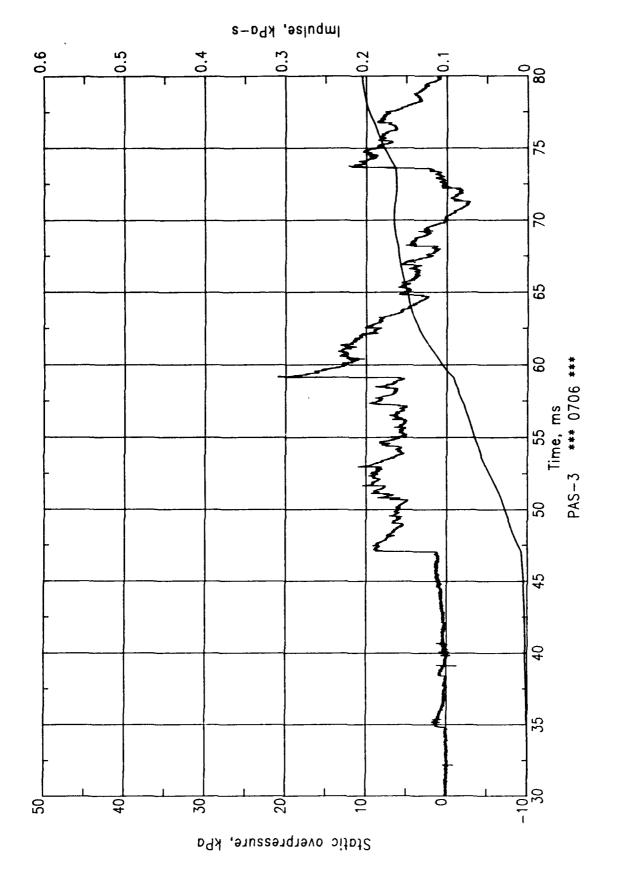




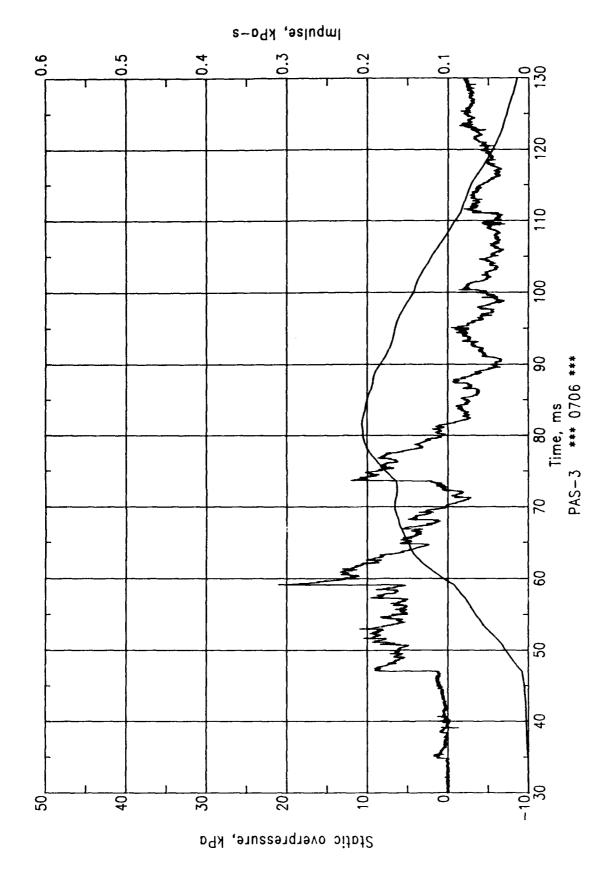


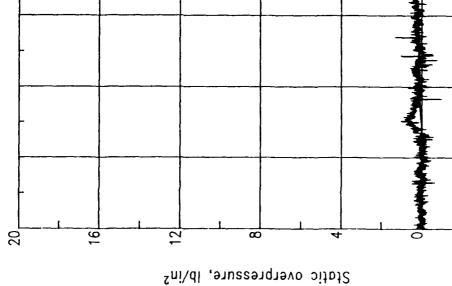


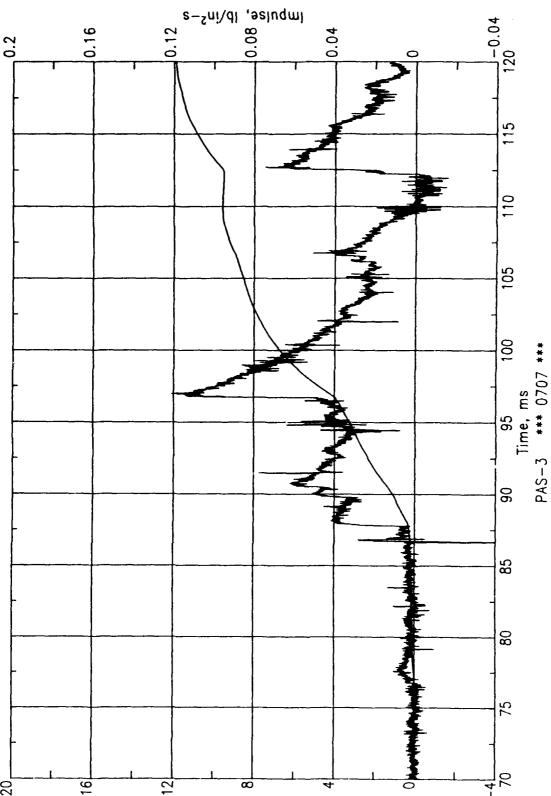


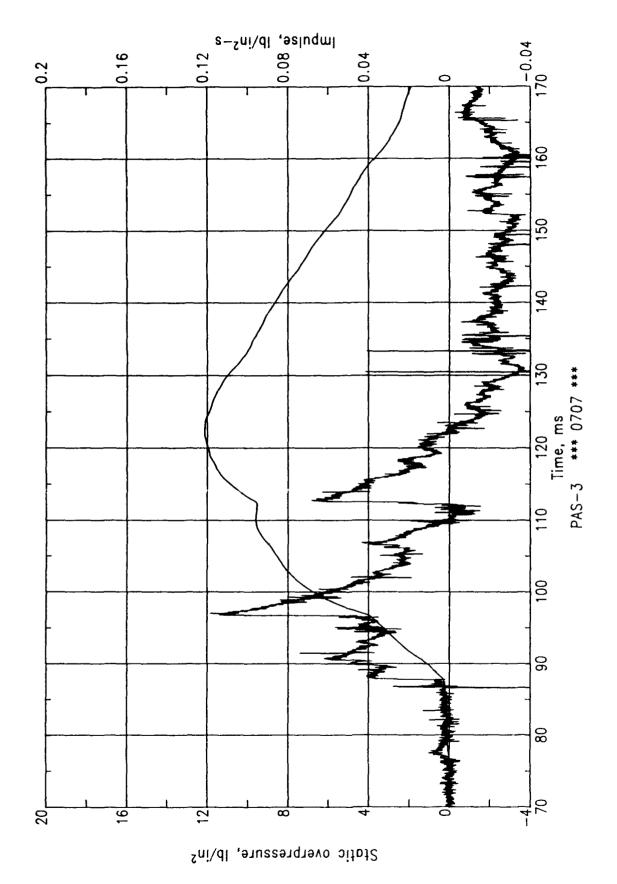


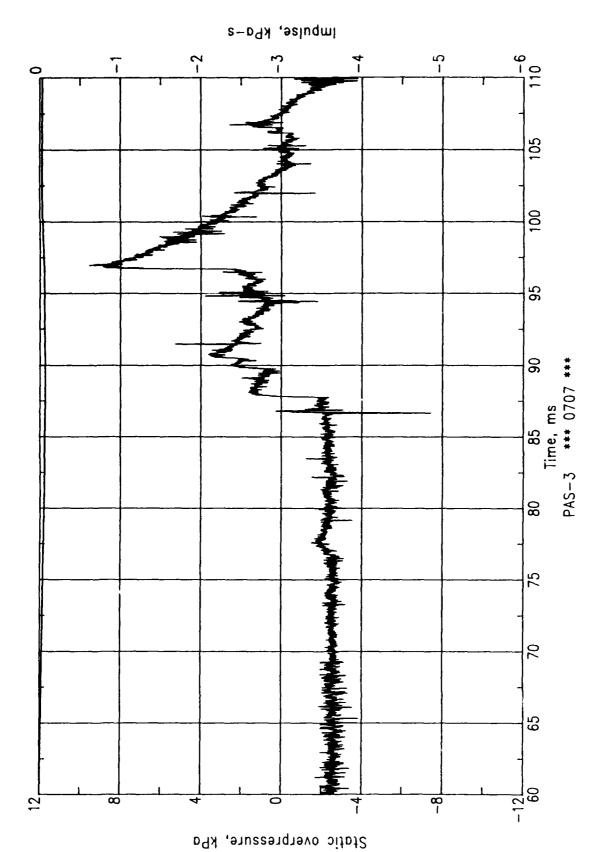


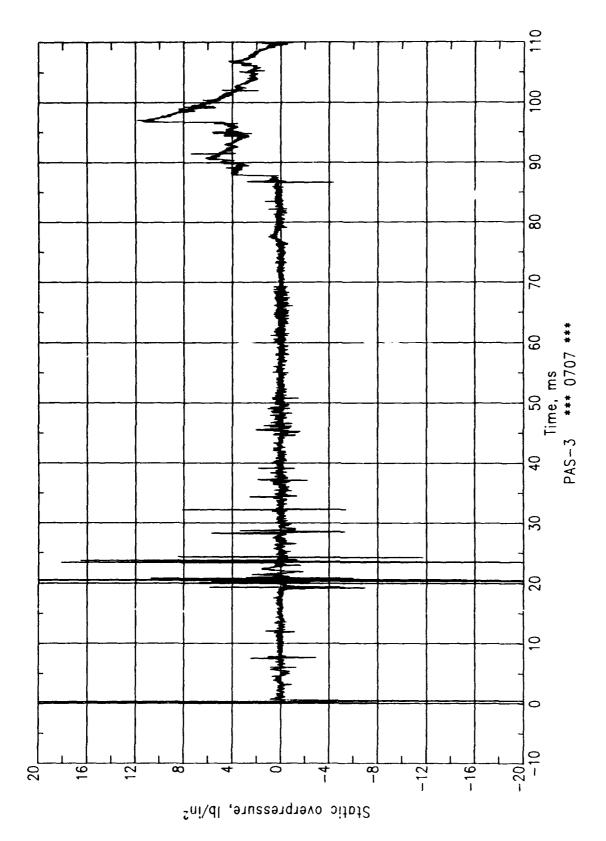




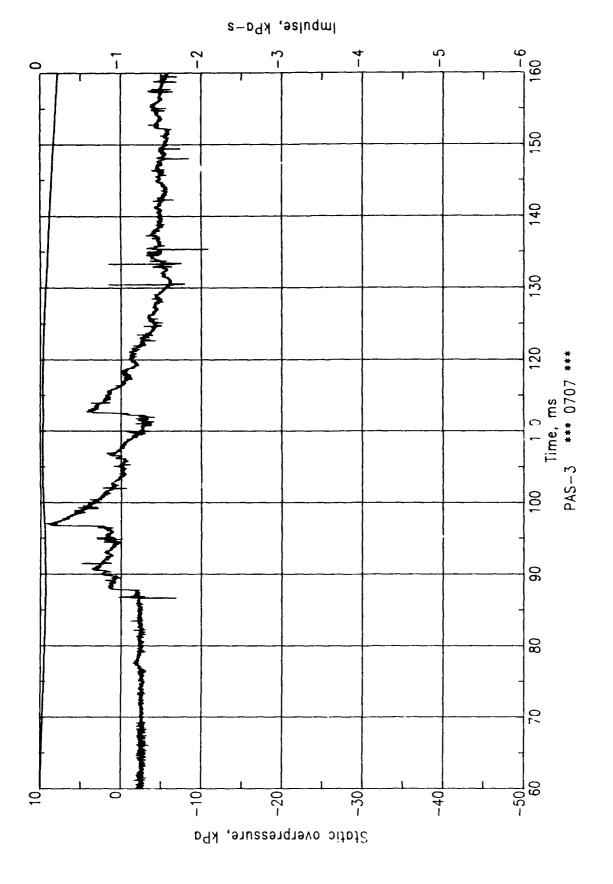


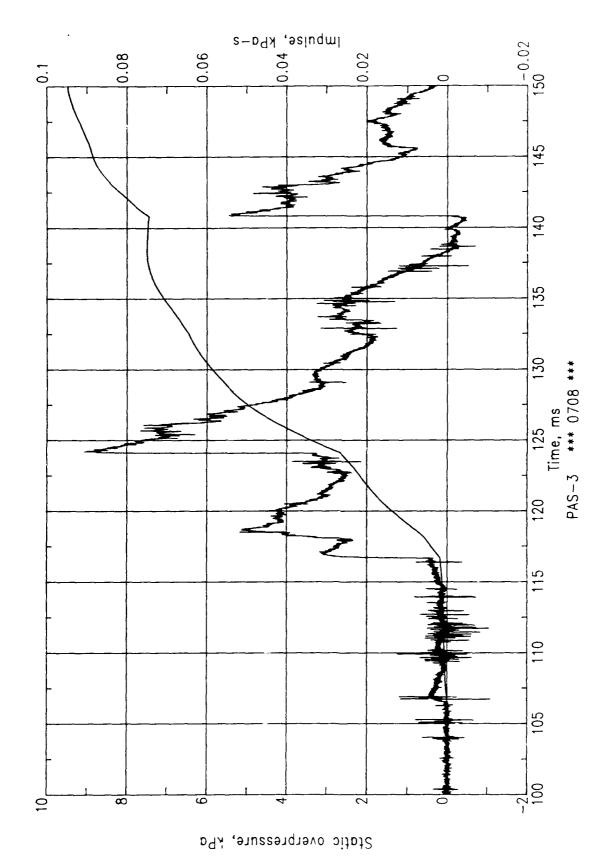


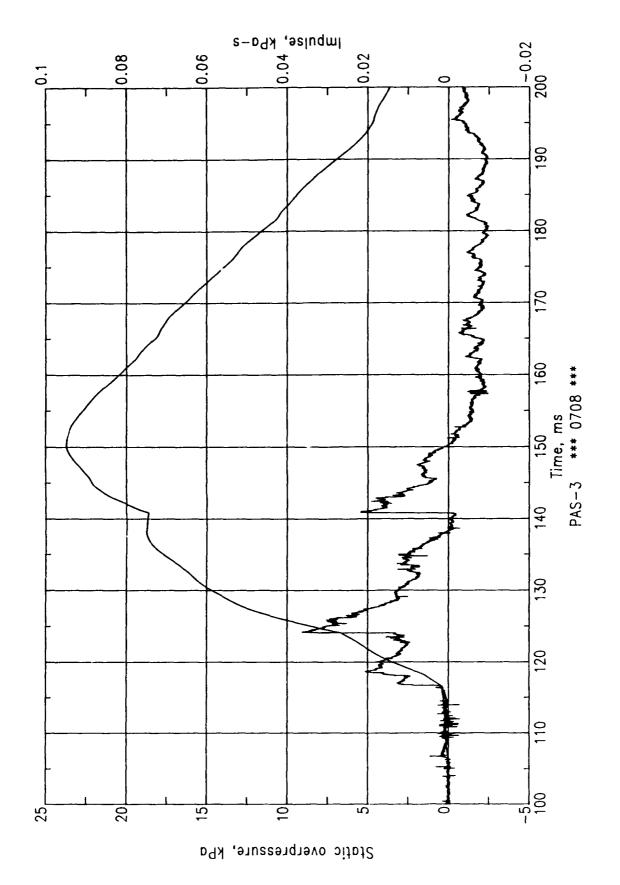


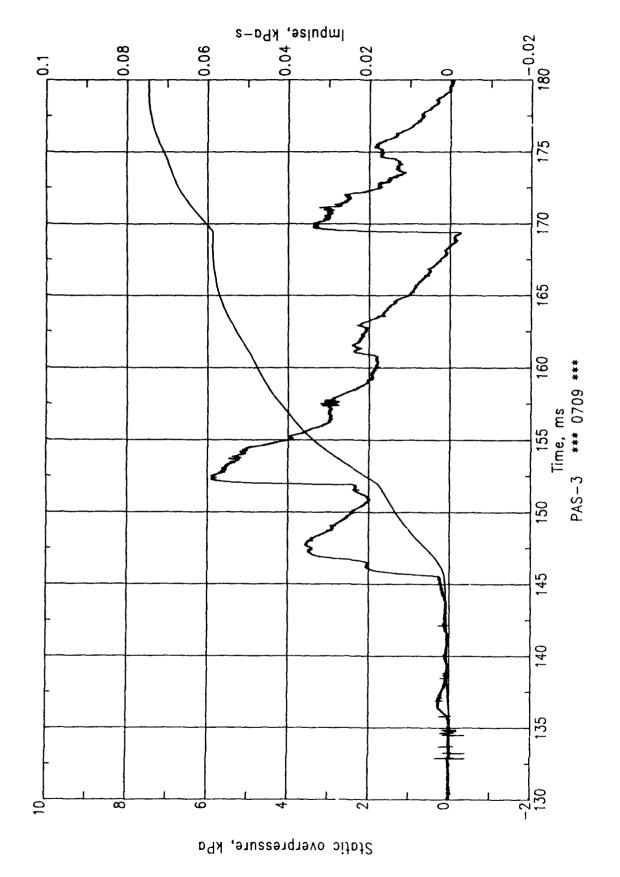




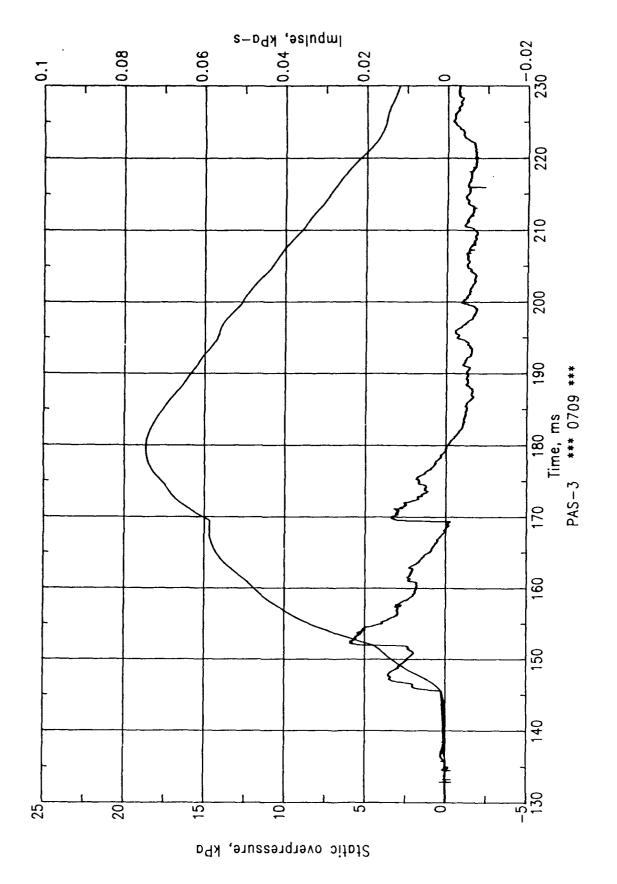


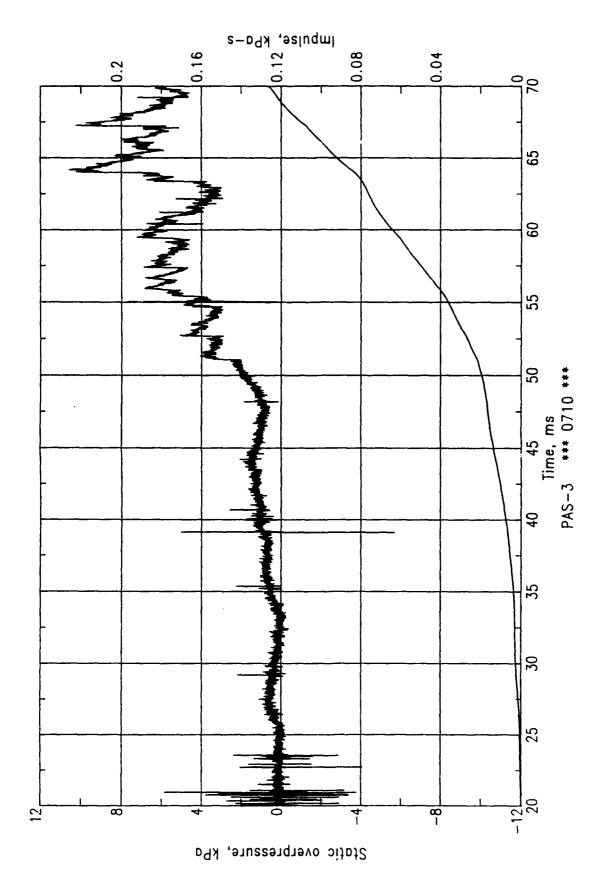


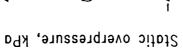


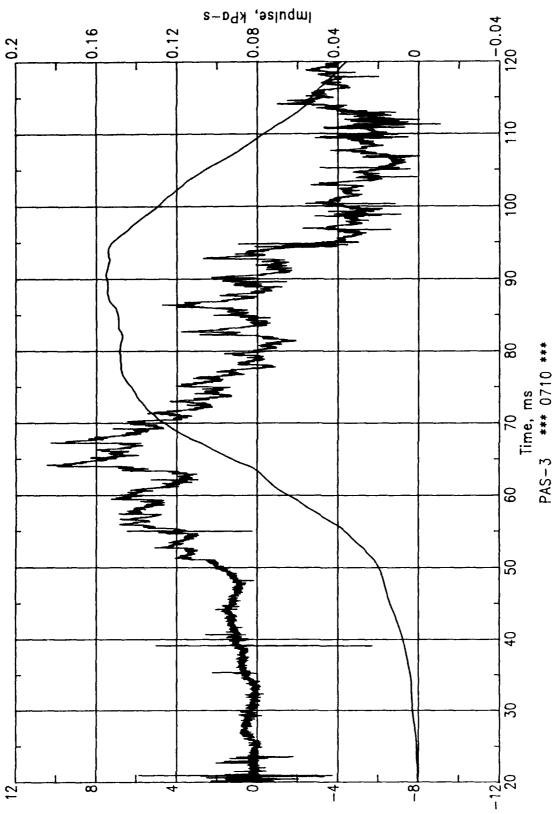


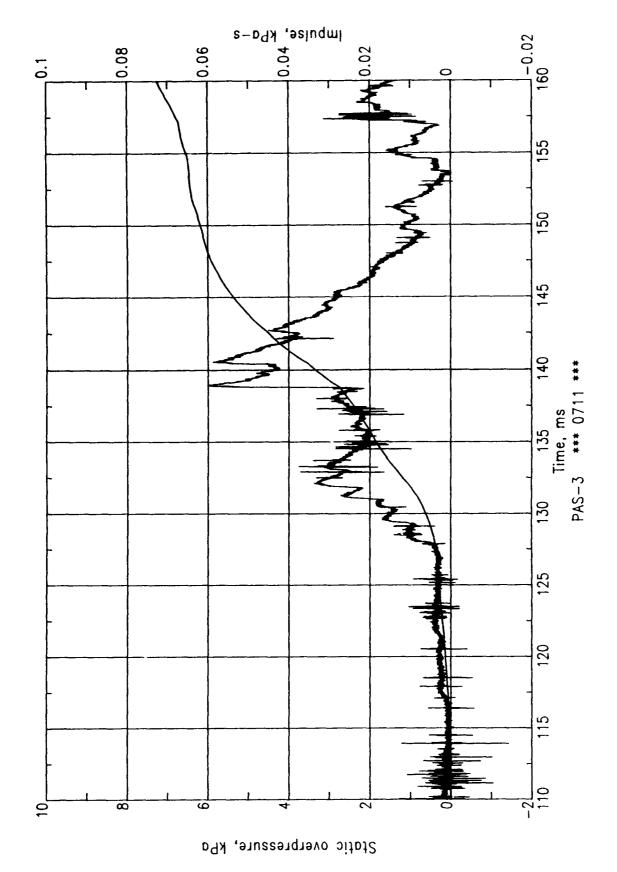


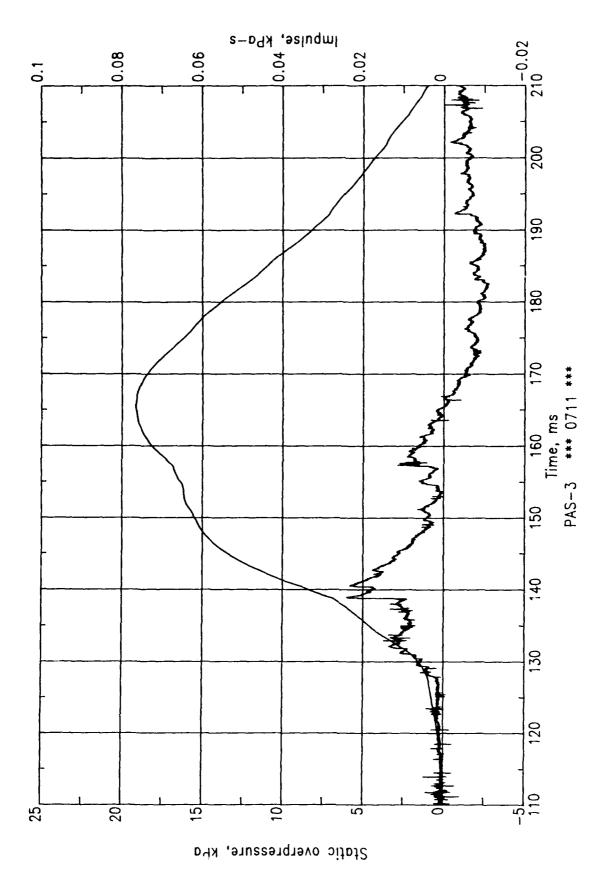


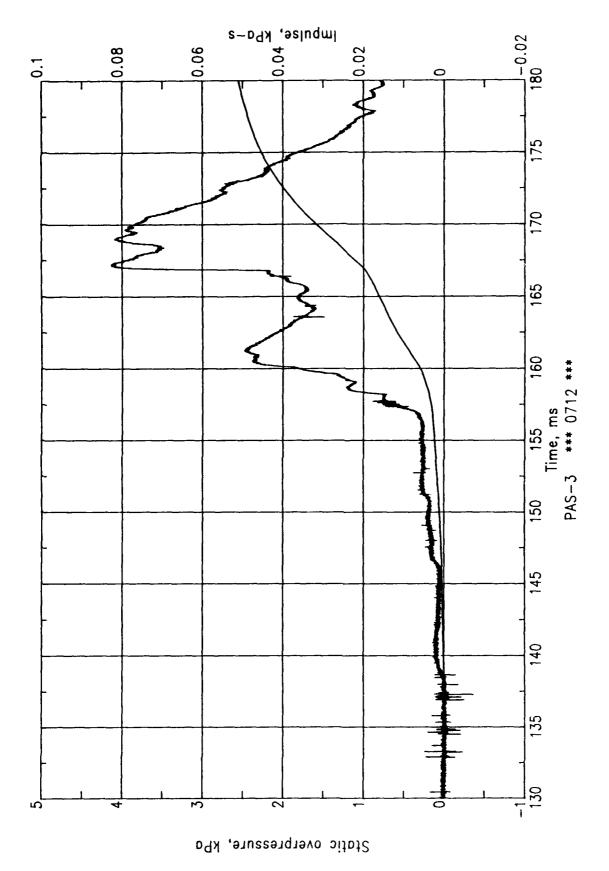


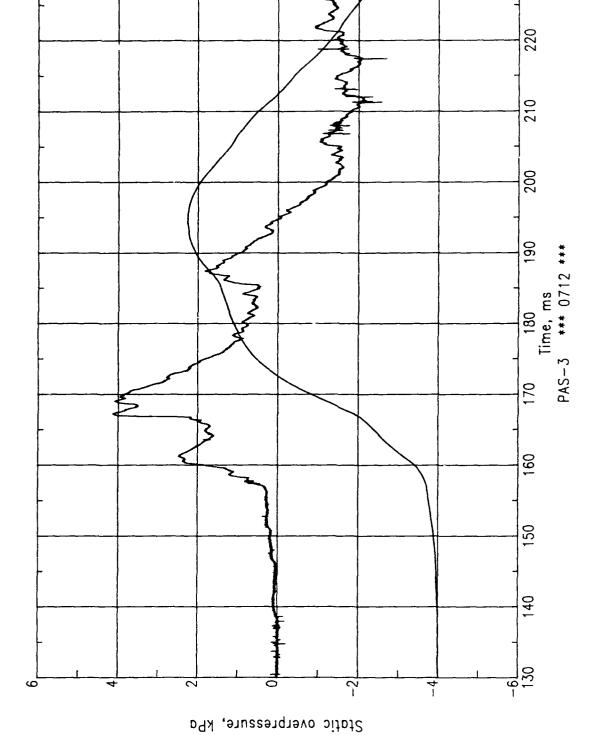








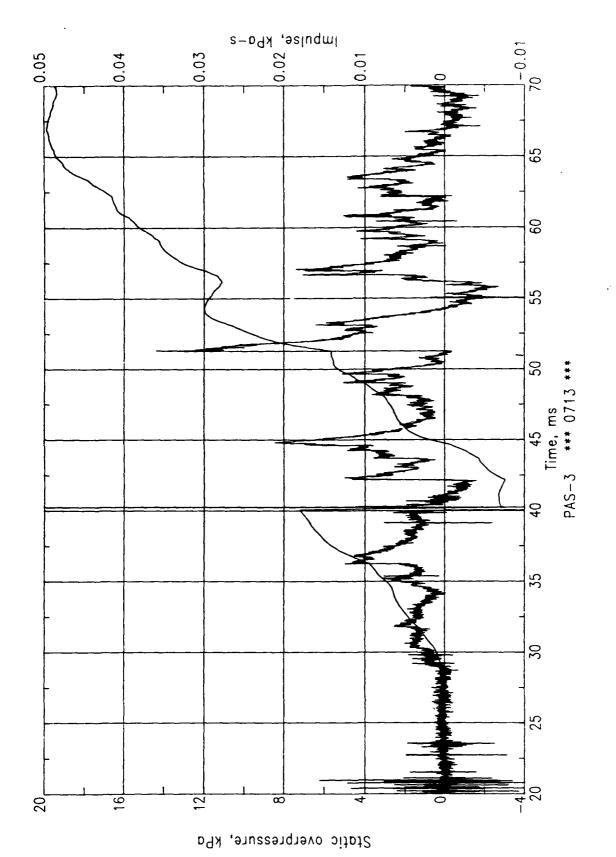


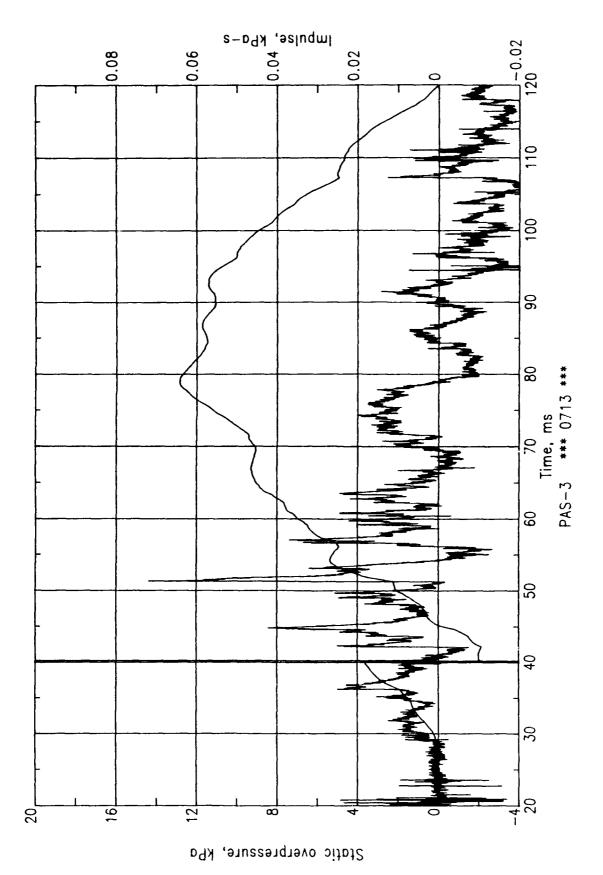


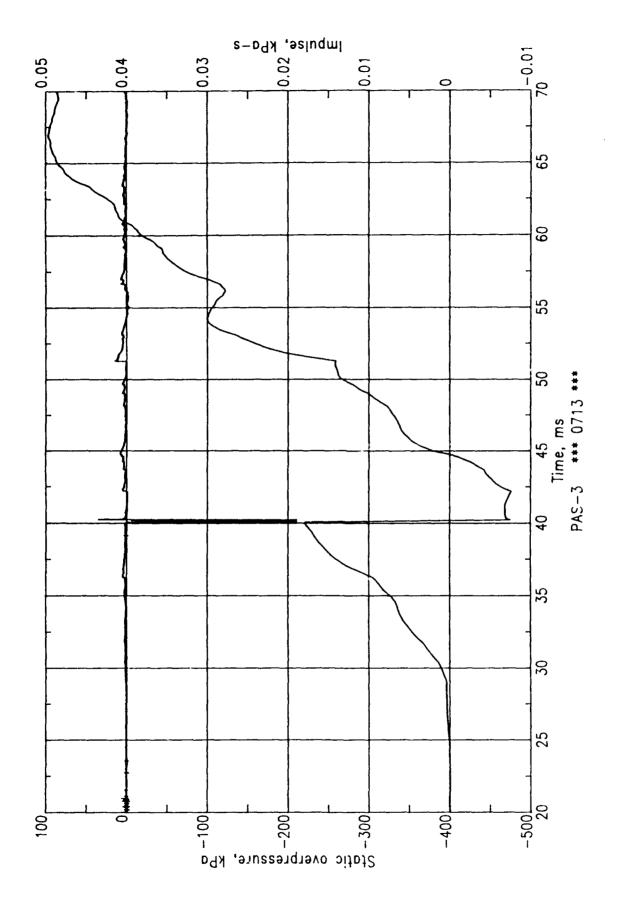
0 00 lmpulse, kPa-s

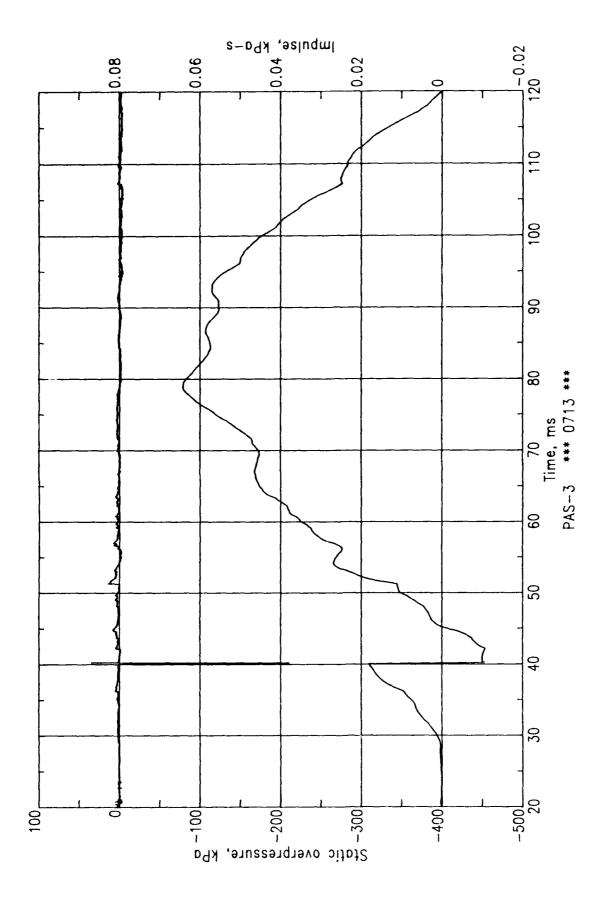
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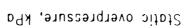


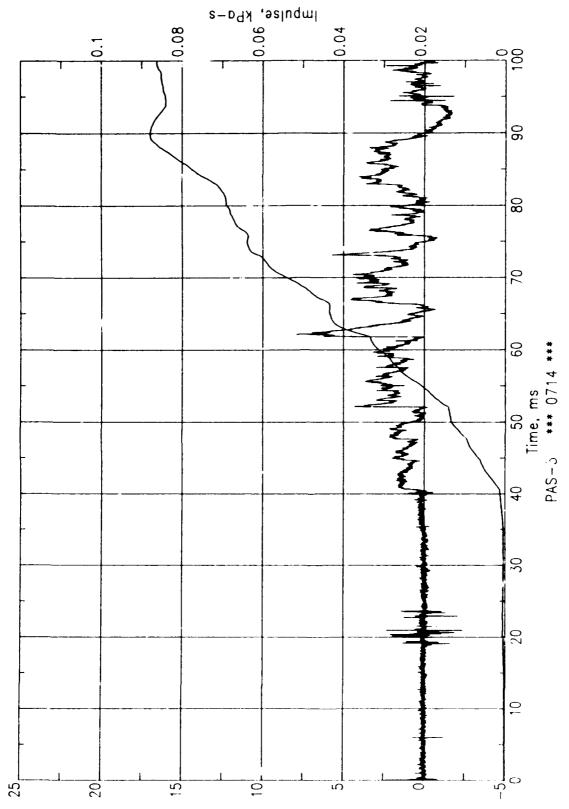


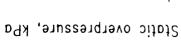


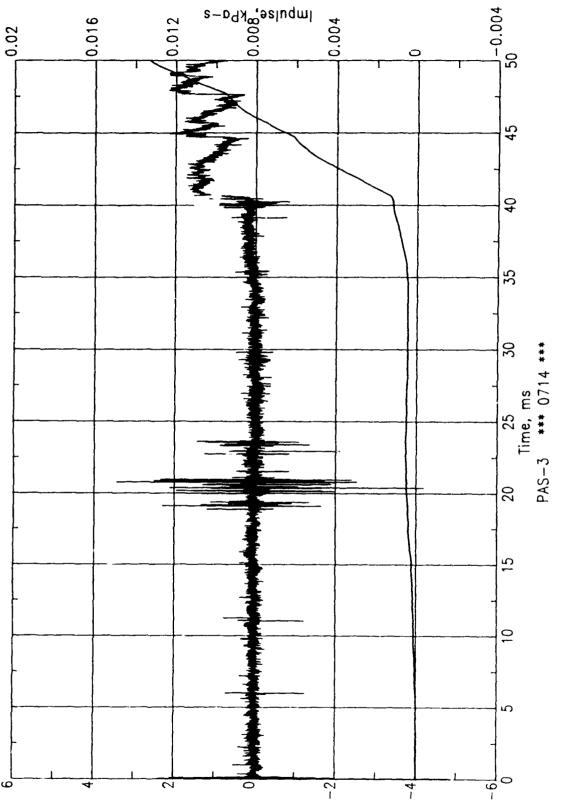


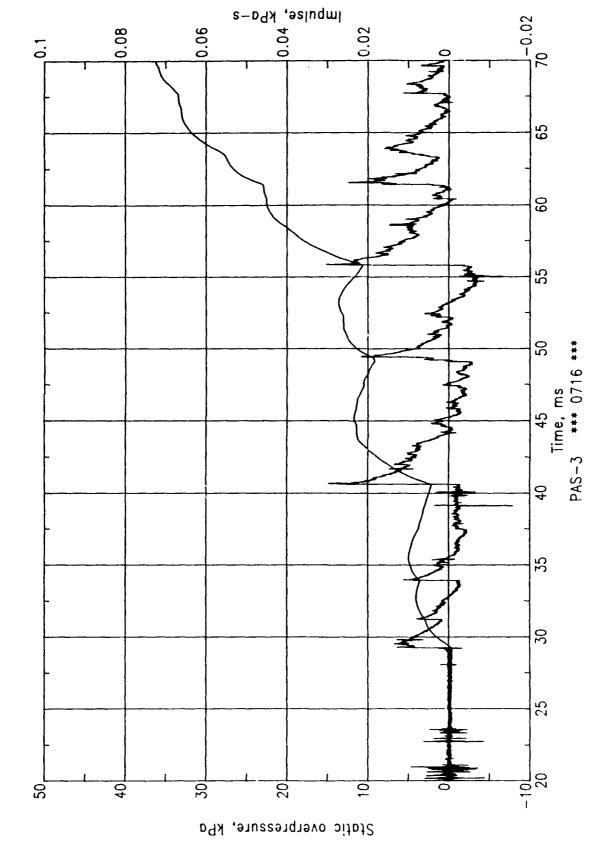


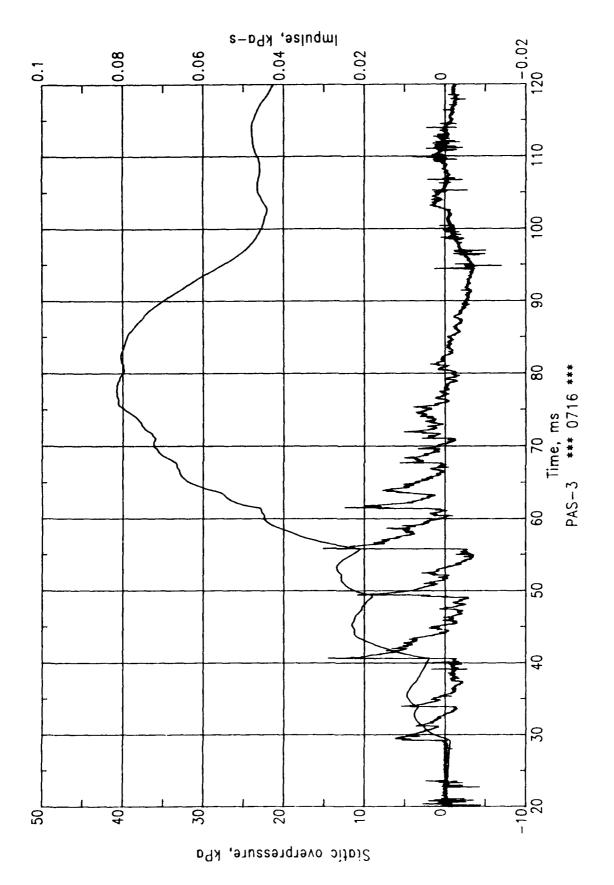


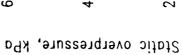


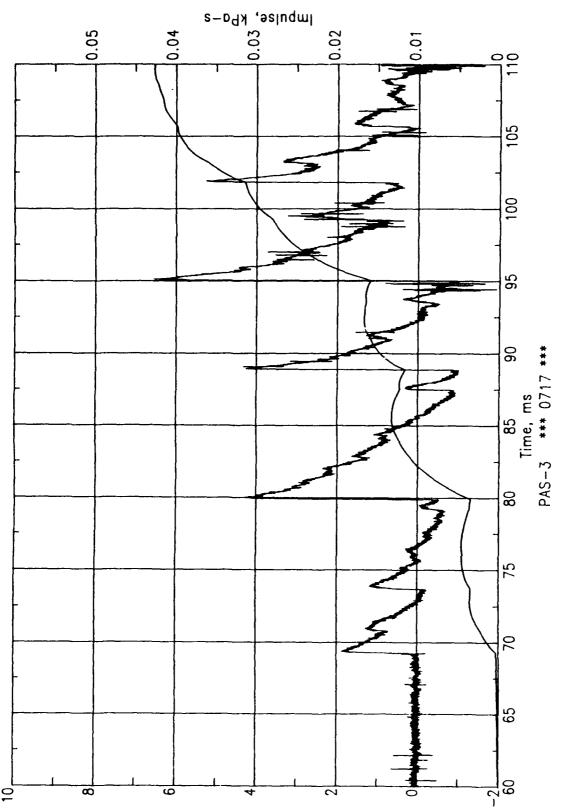


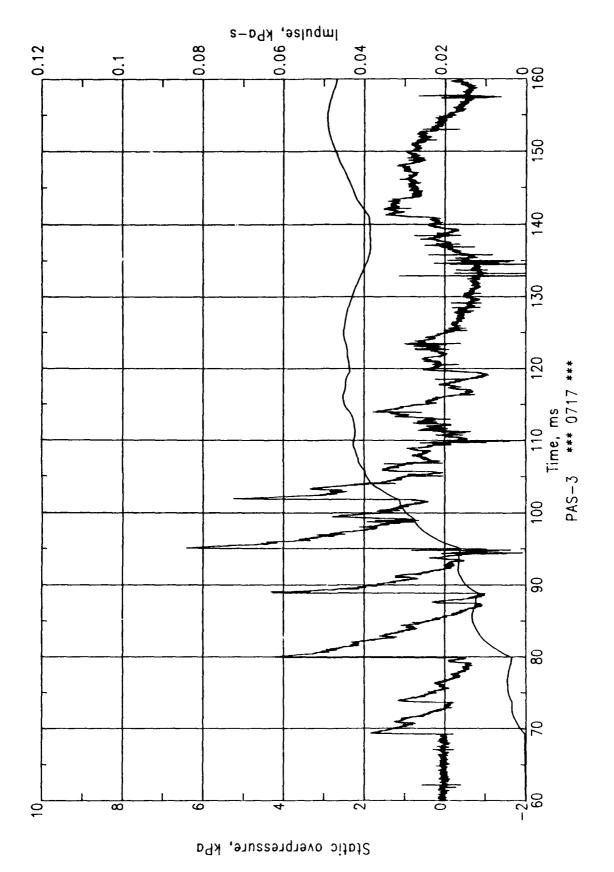




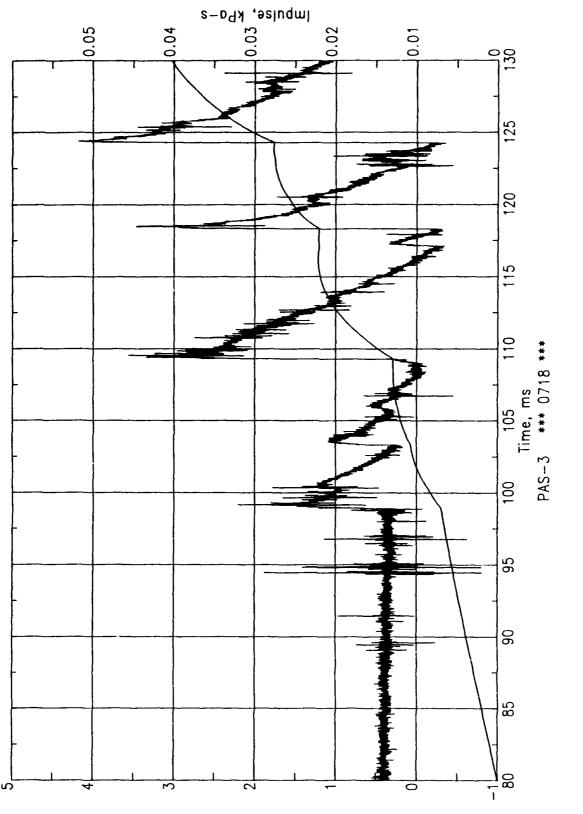




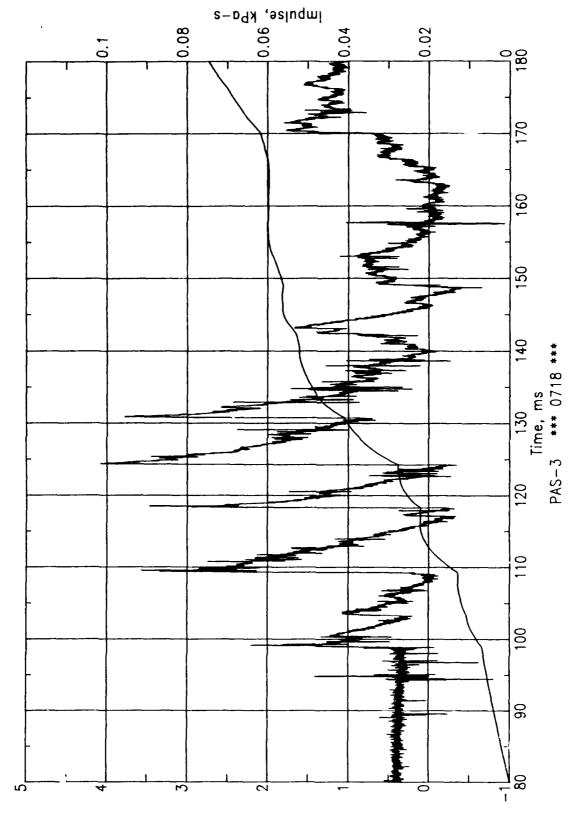




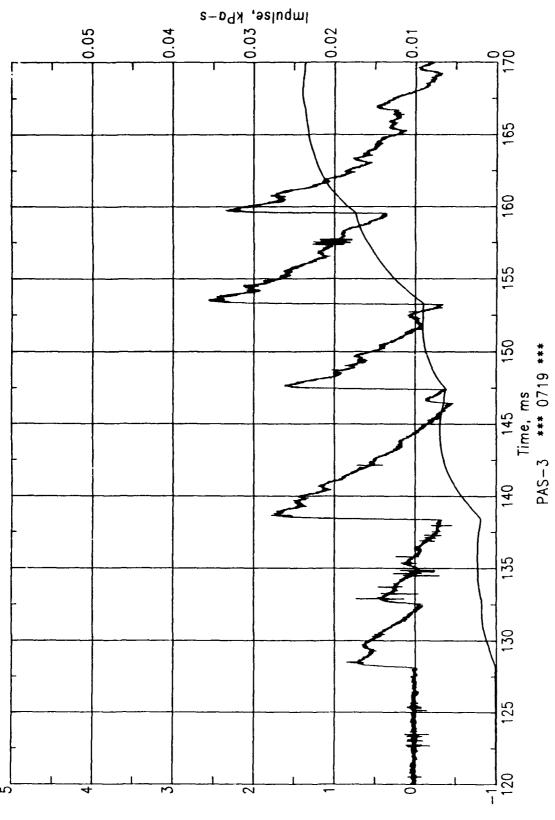
Static overpressure, kPa



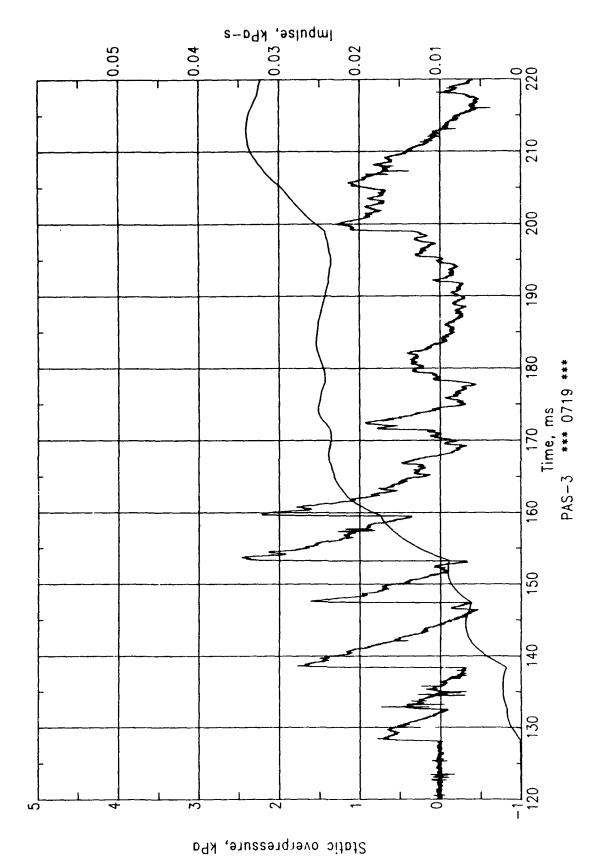
Static overpressure, kPa



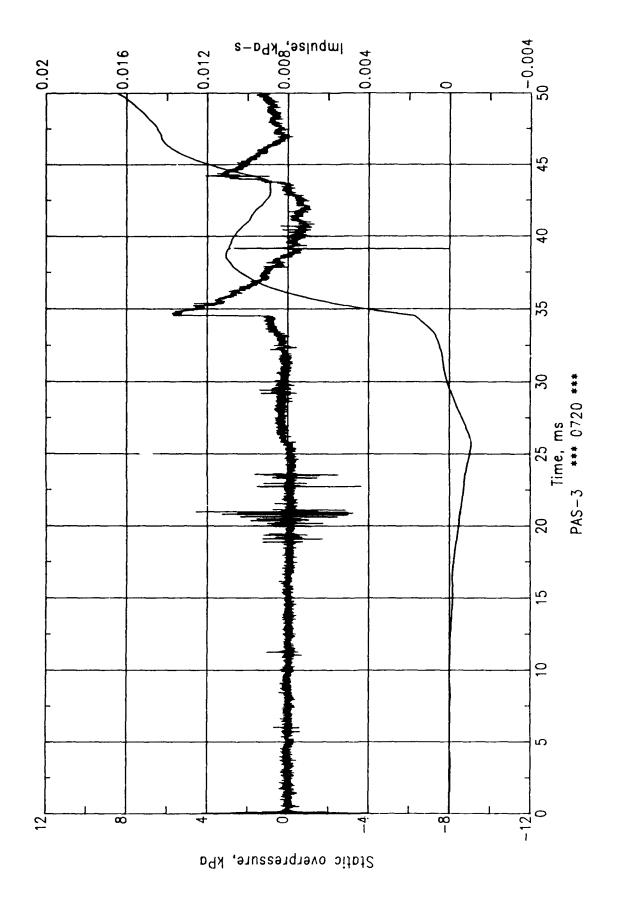
Static overpressure, kPa

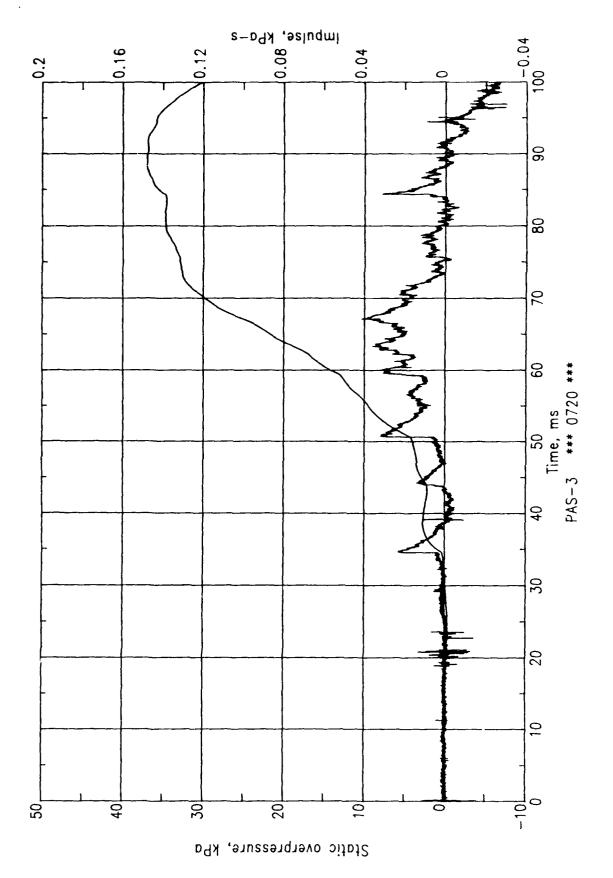


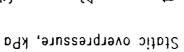


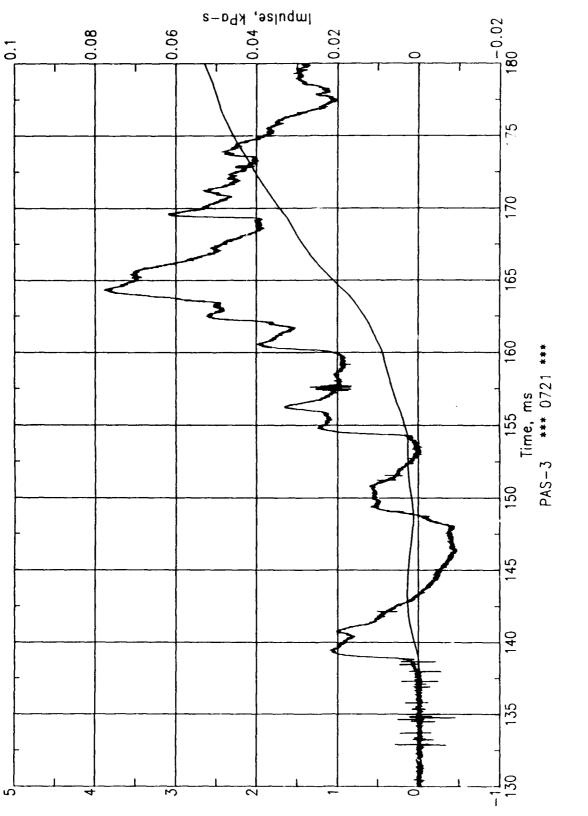


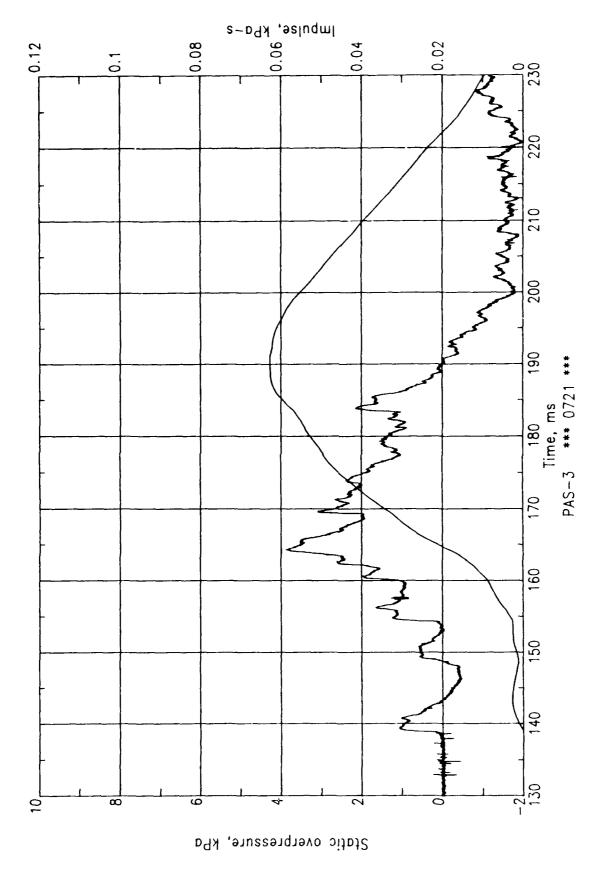




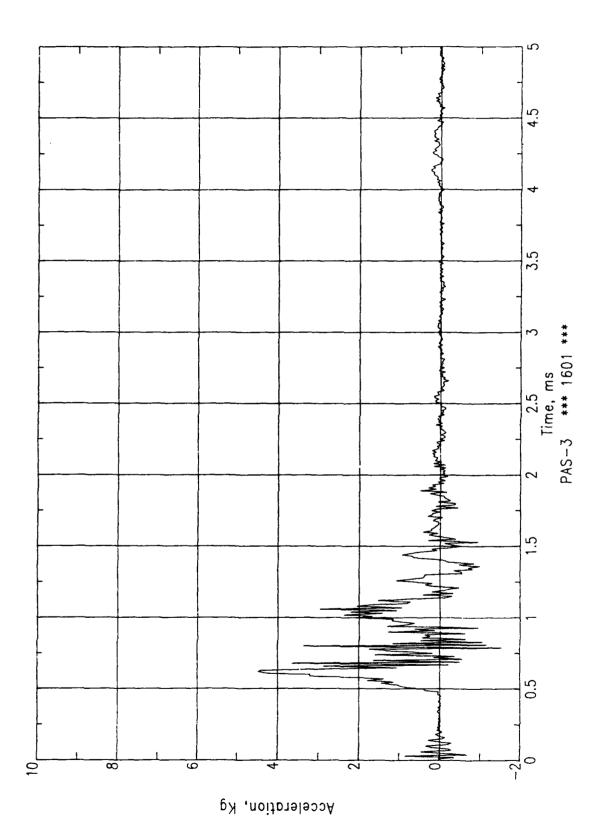


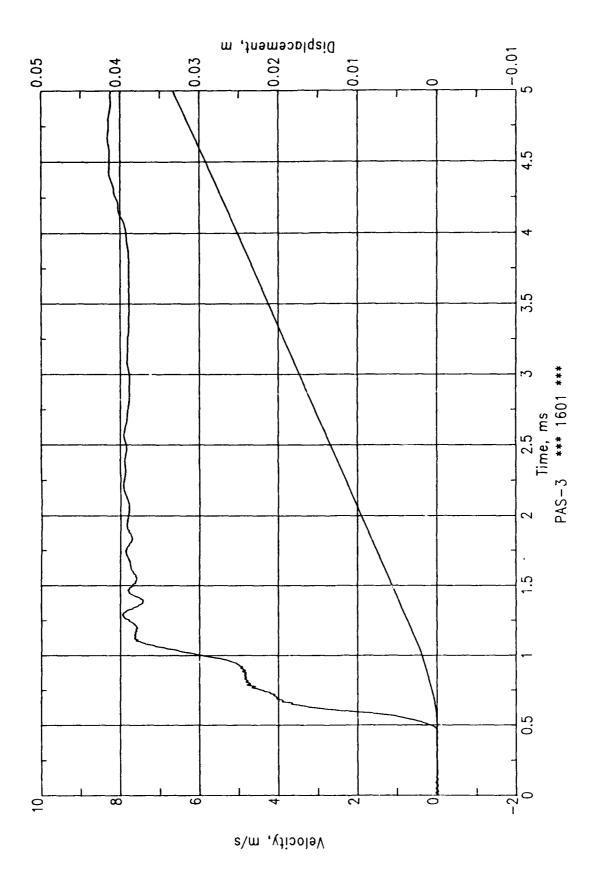


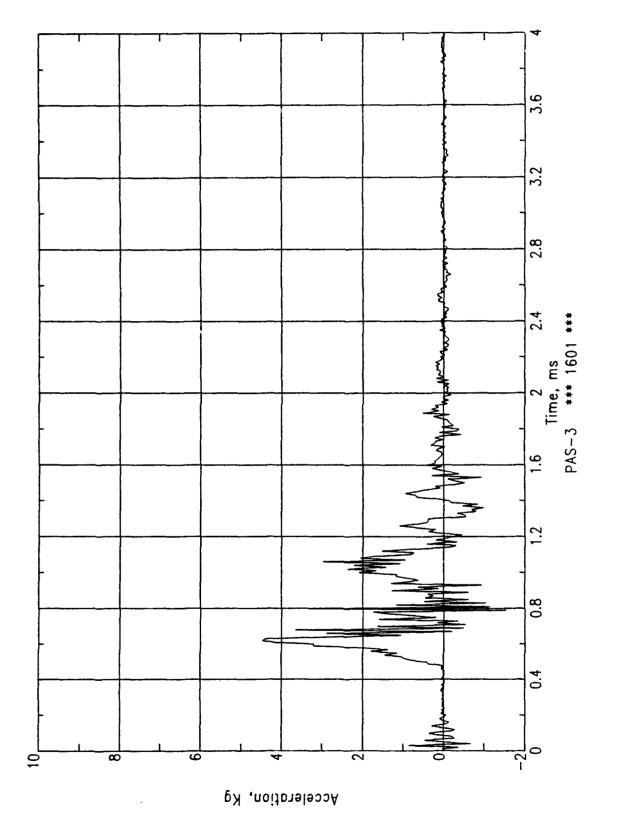


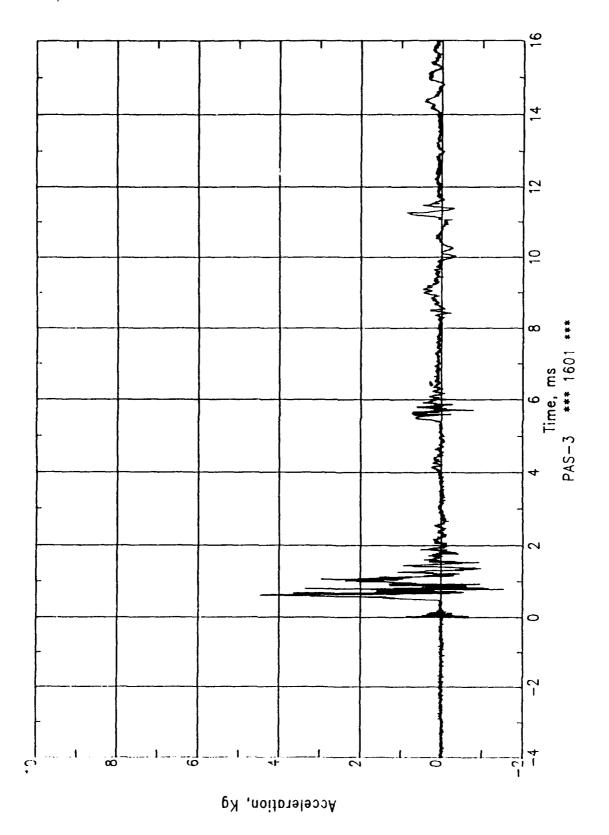




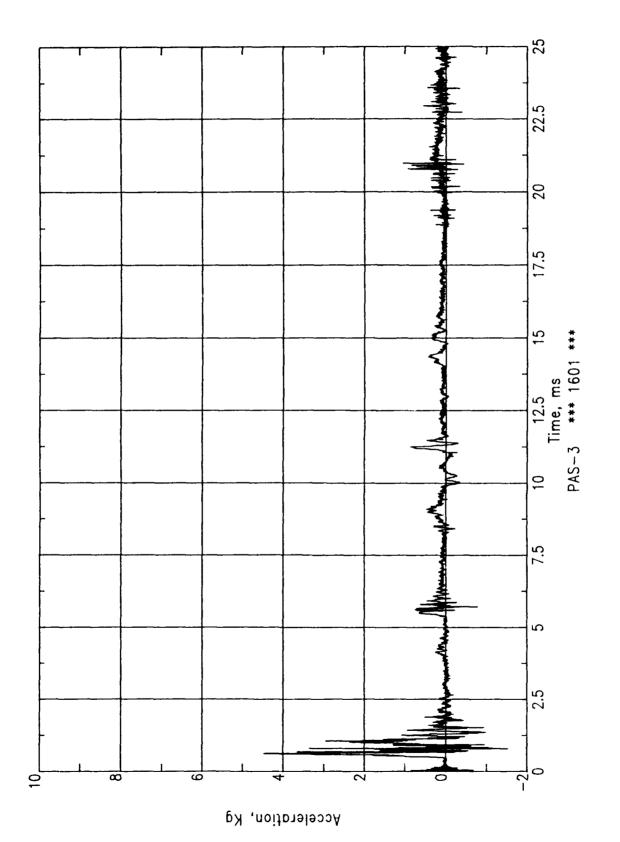




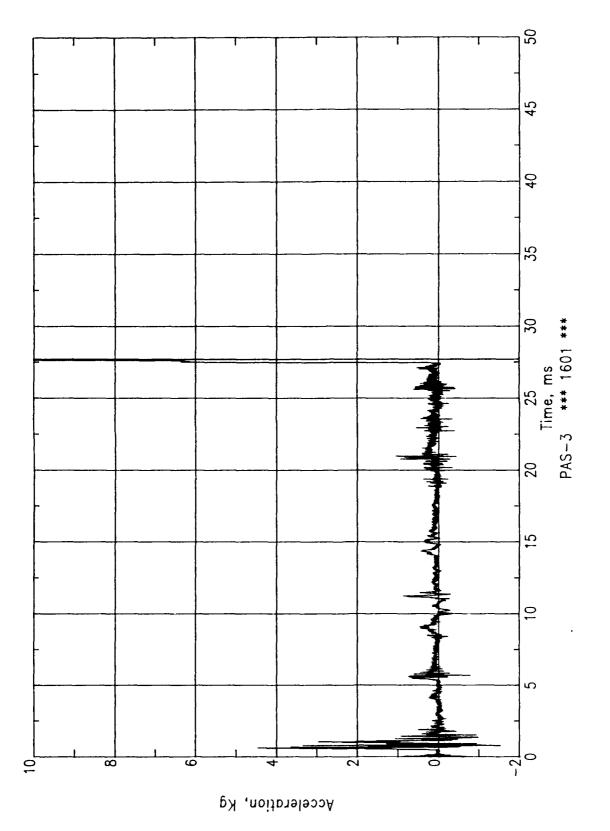


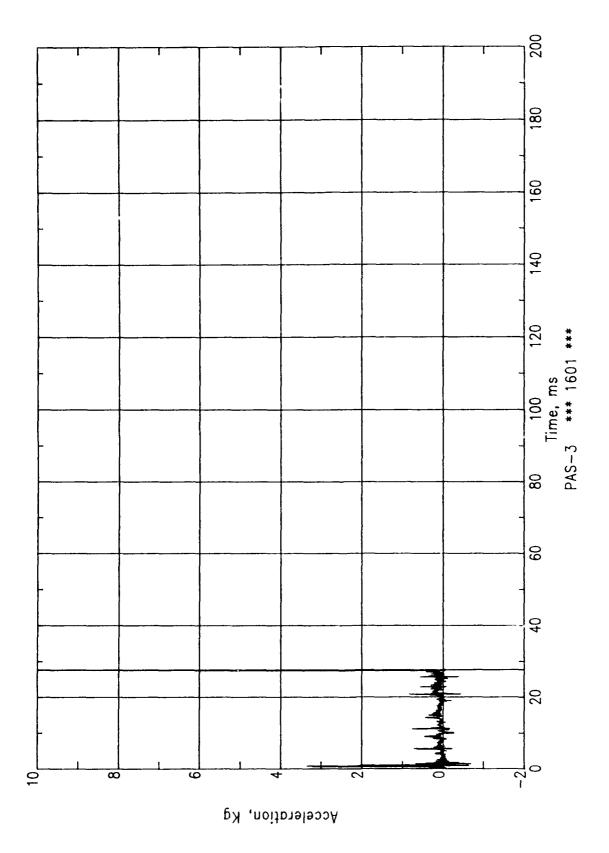


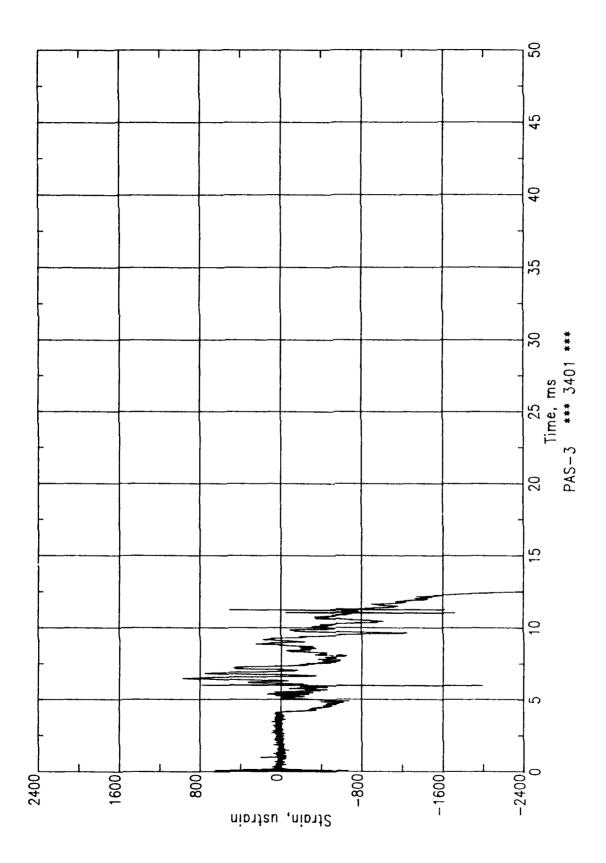


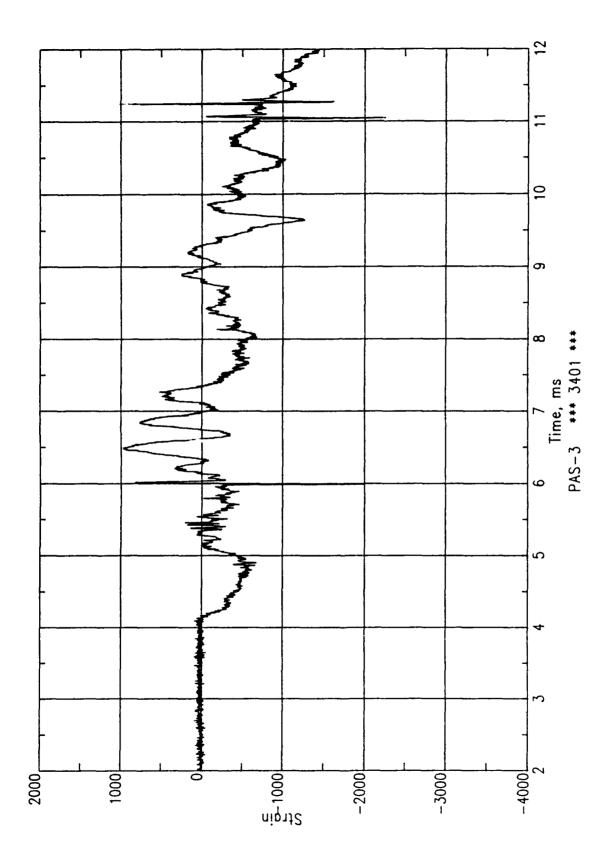


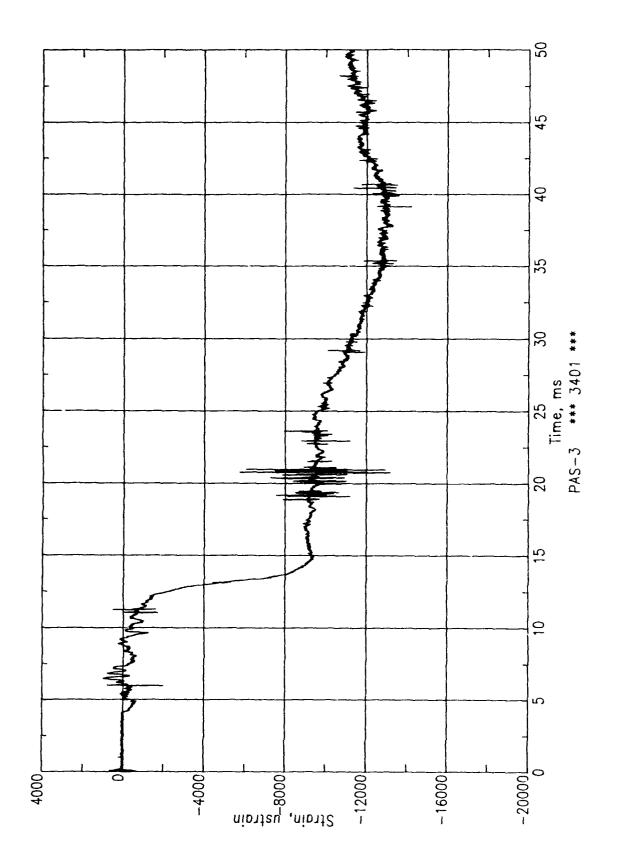


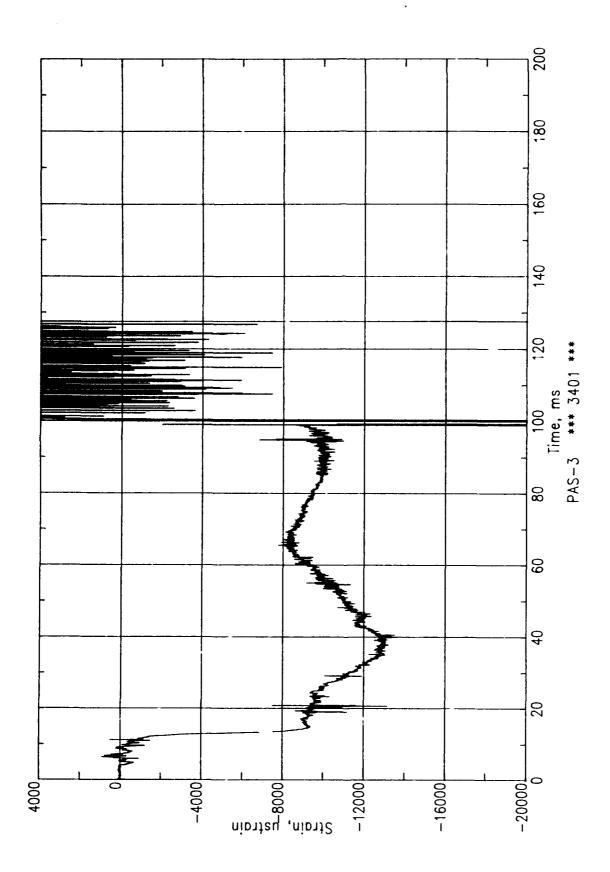


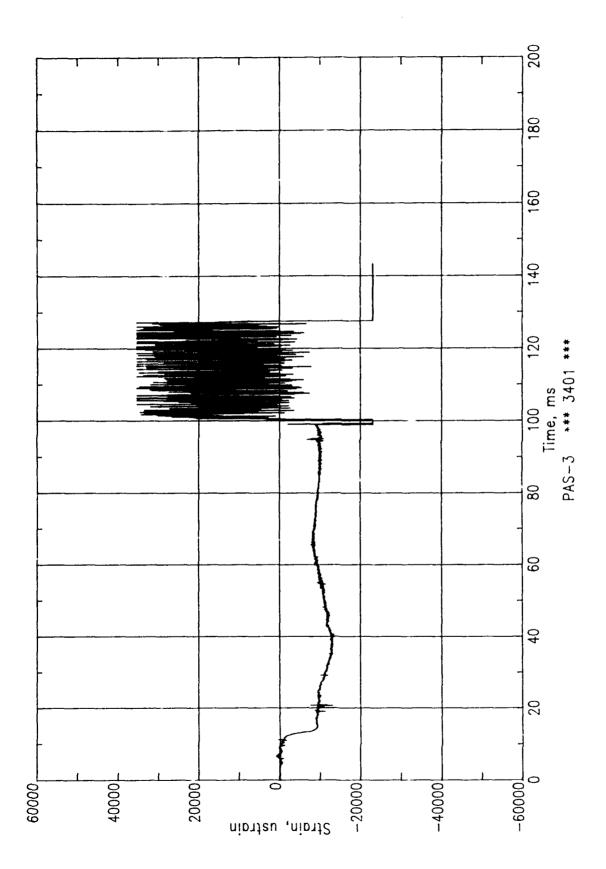


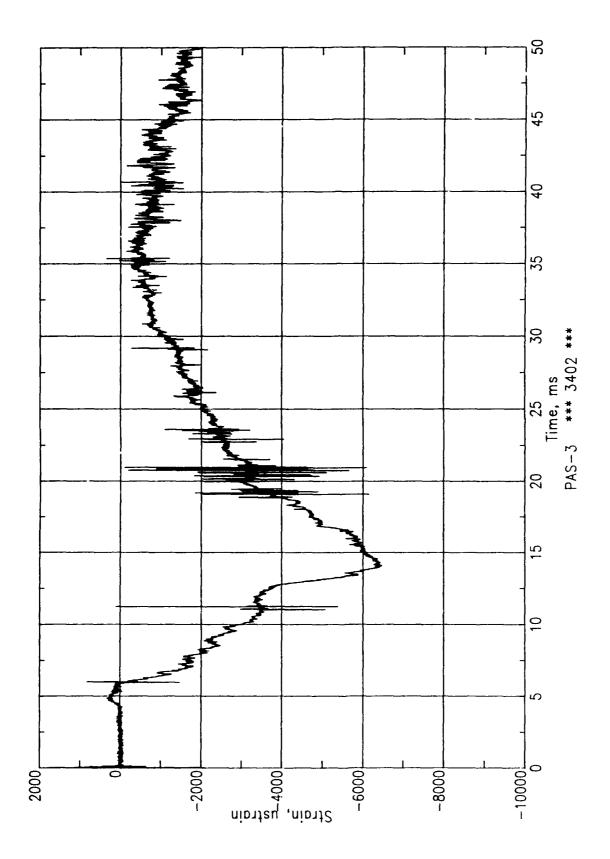


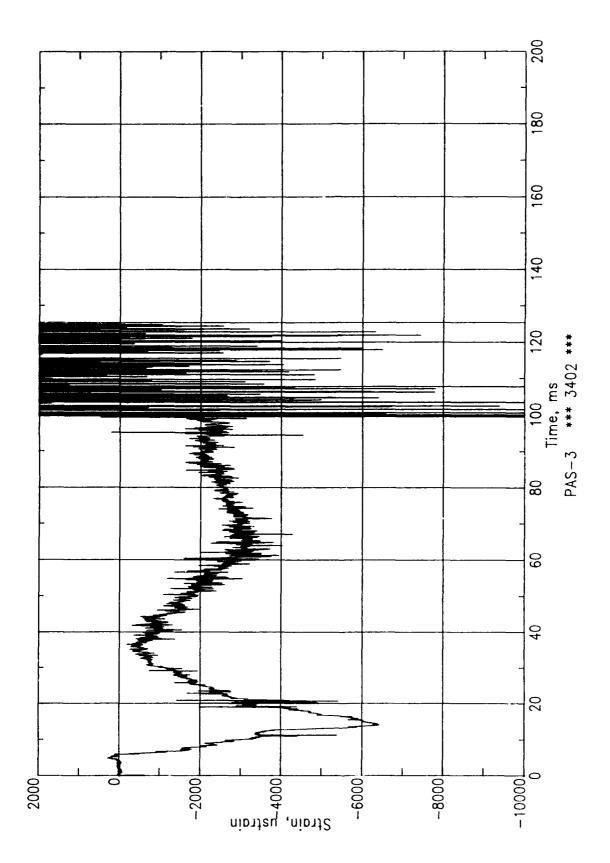


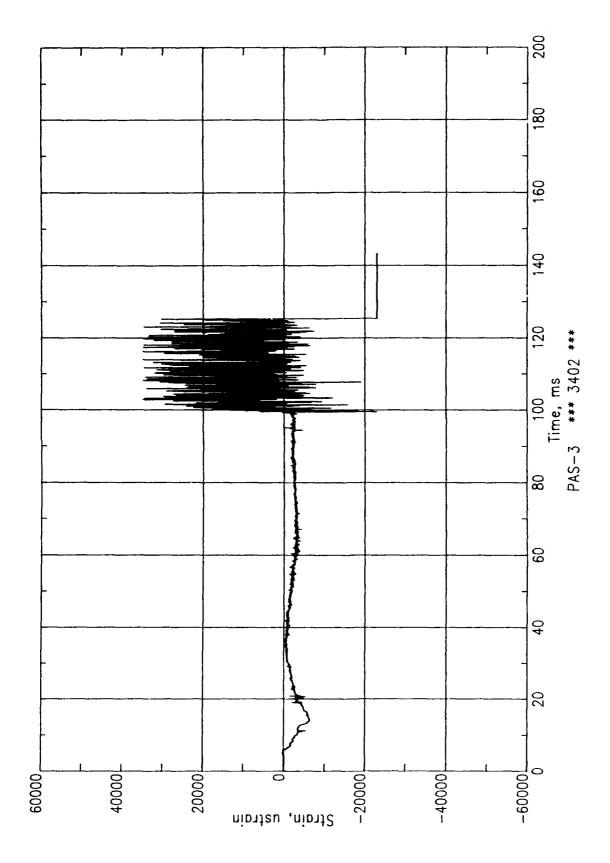


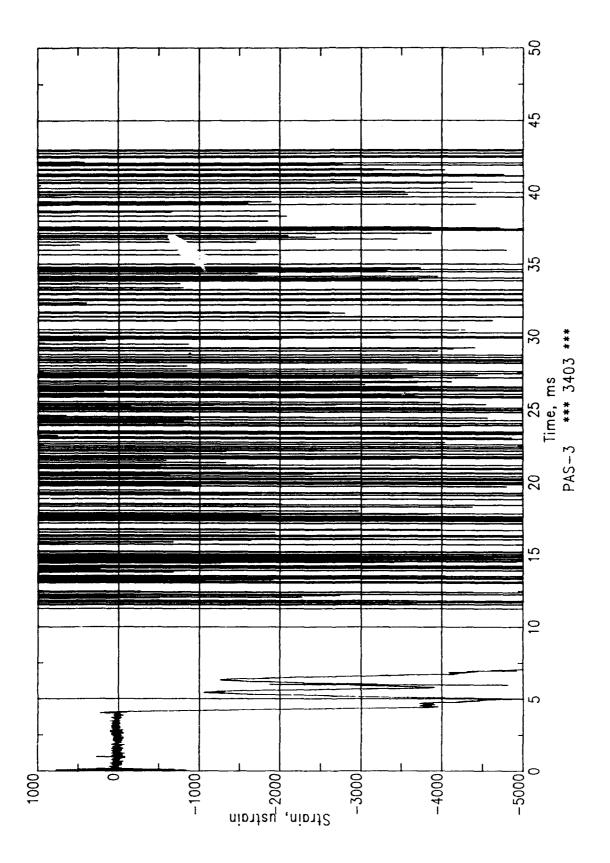


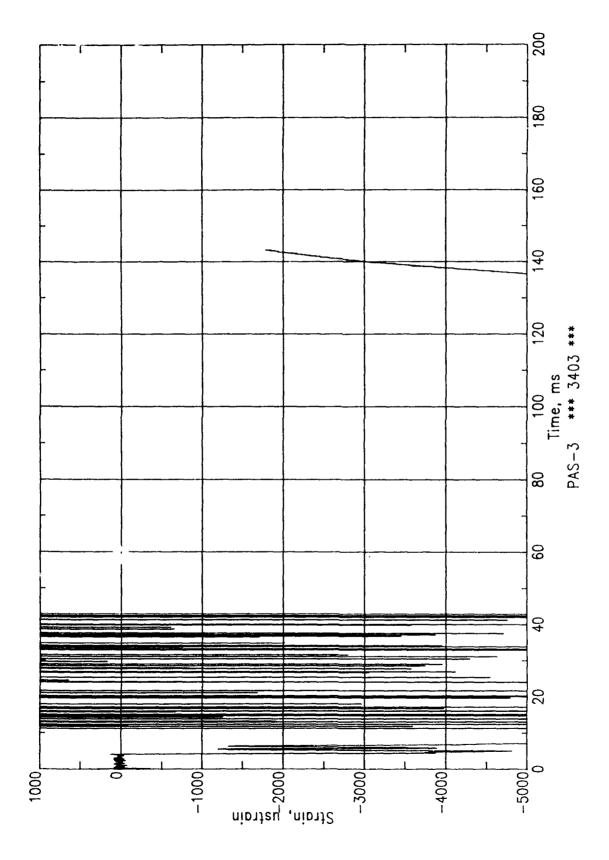


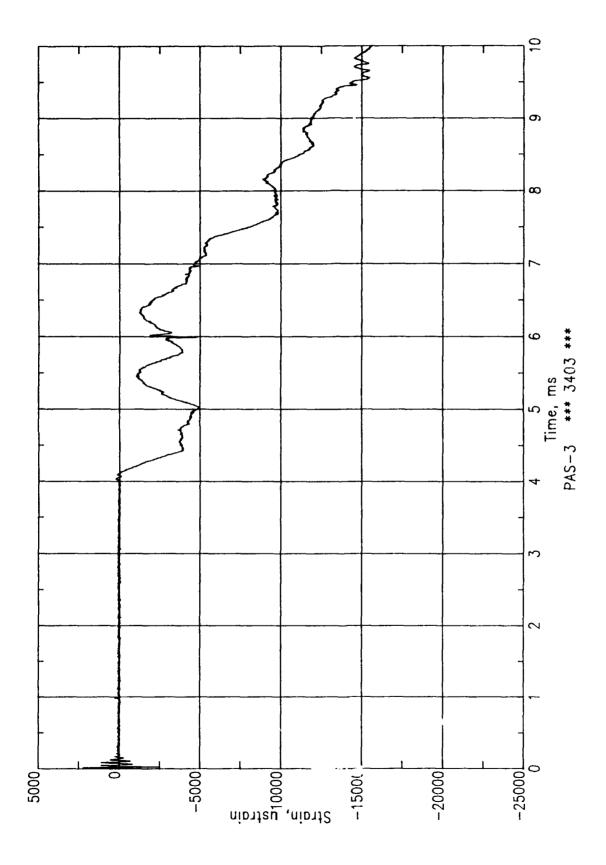


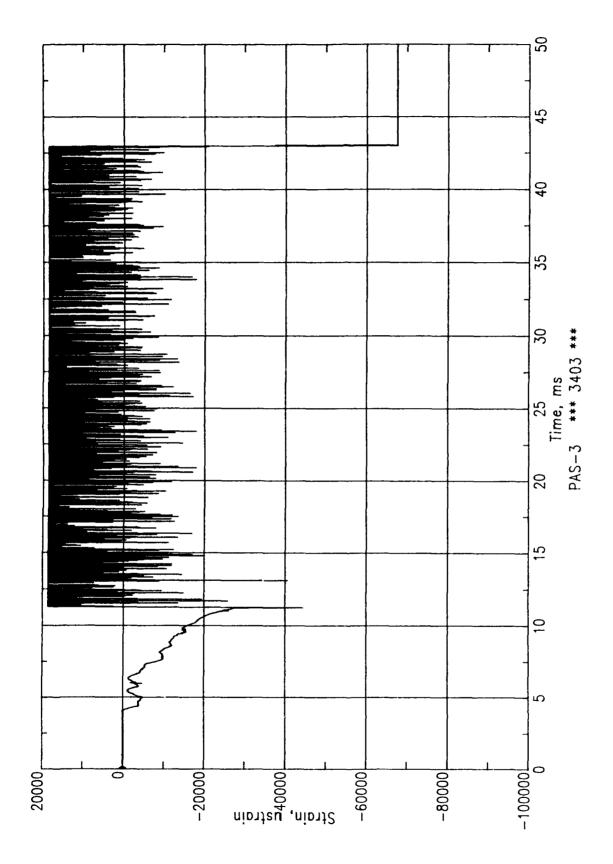


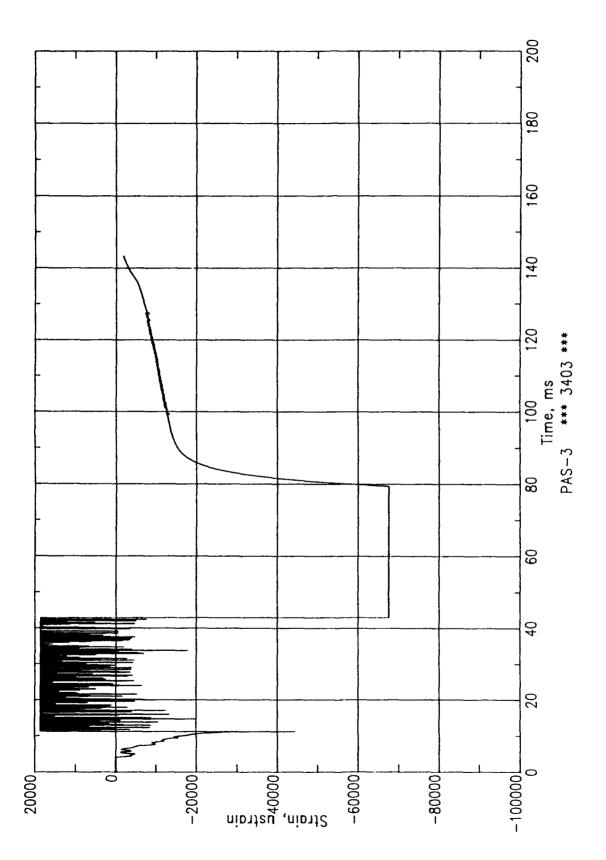


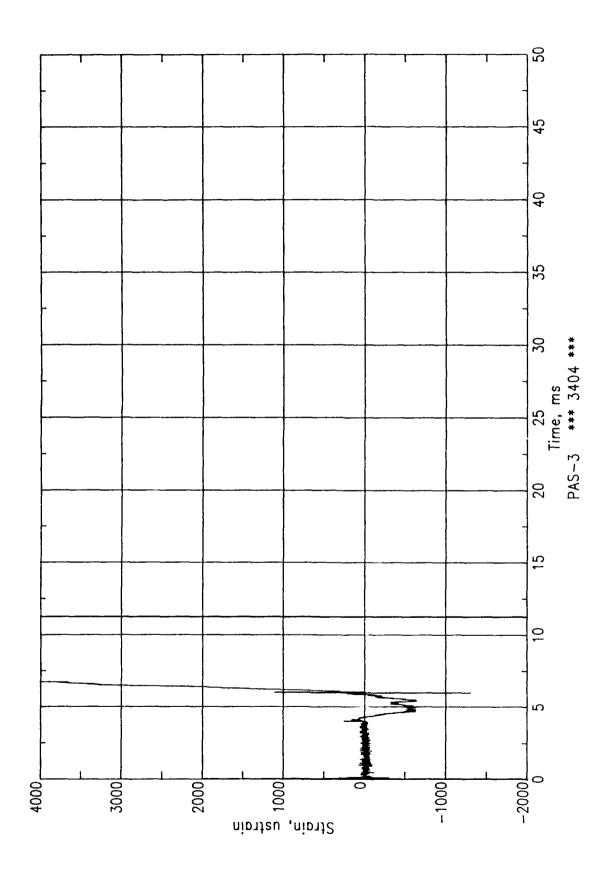


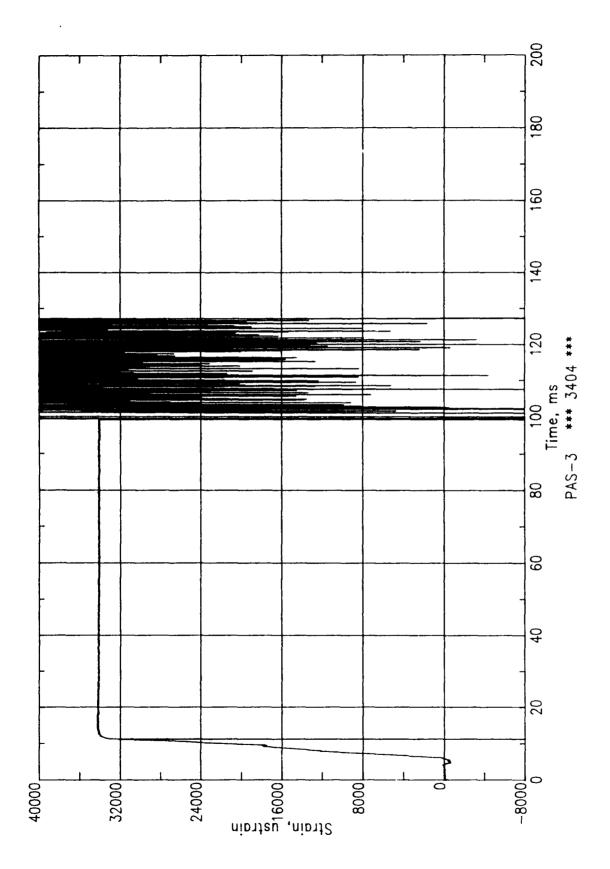


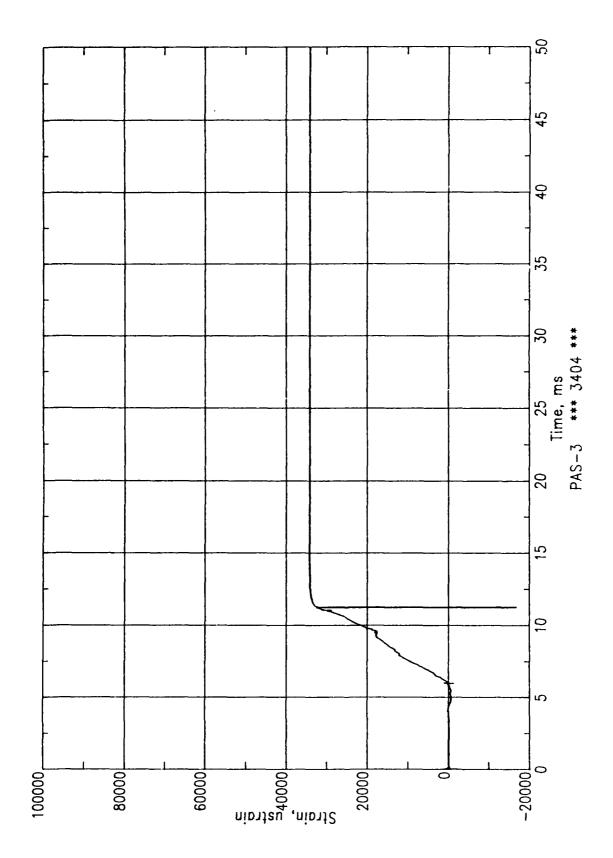


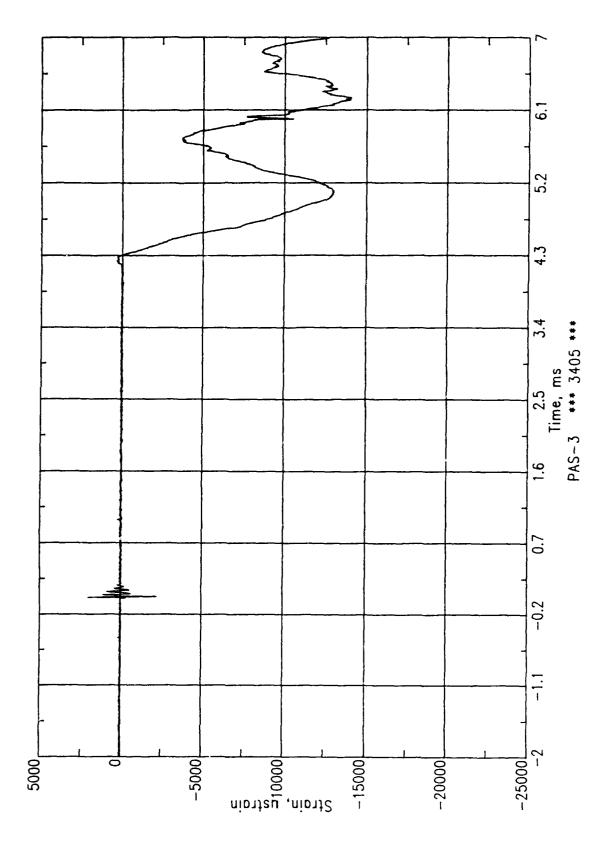


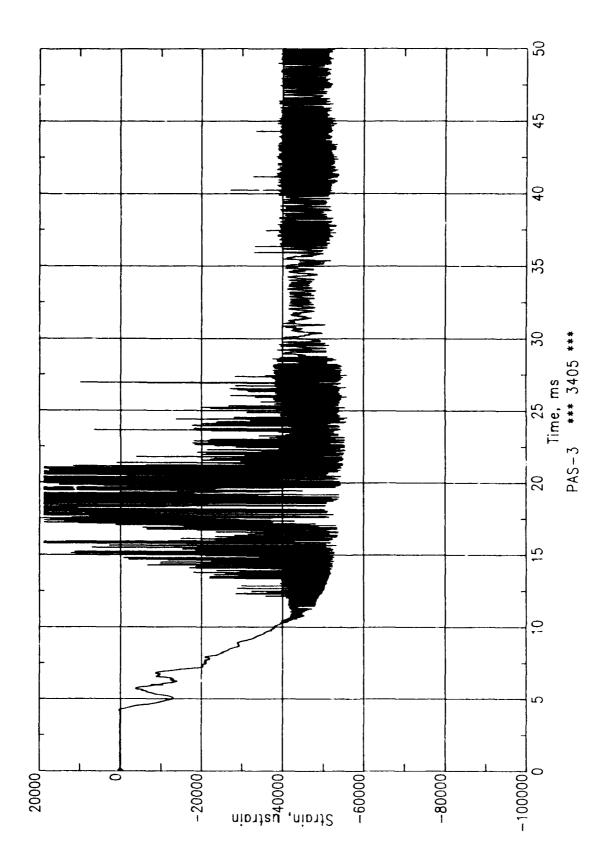


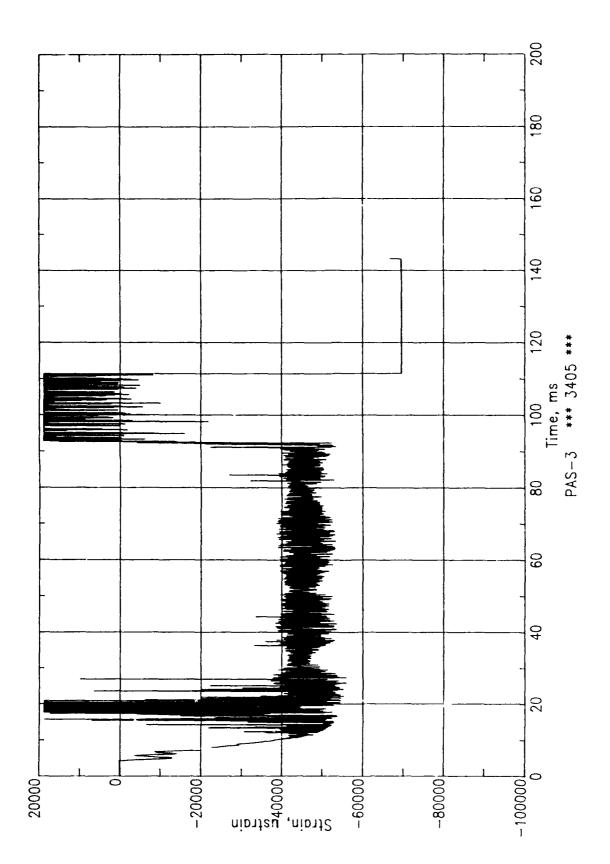


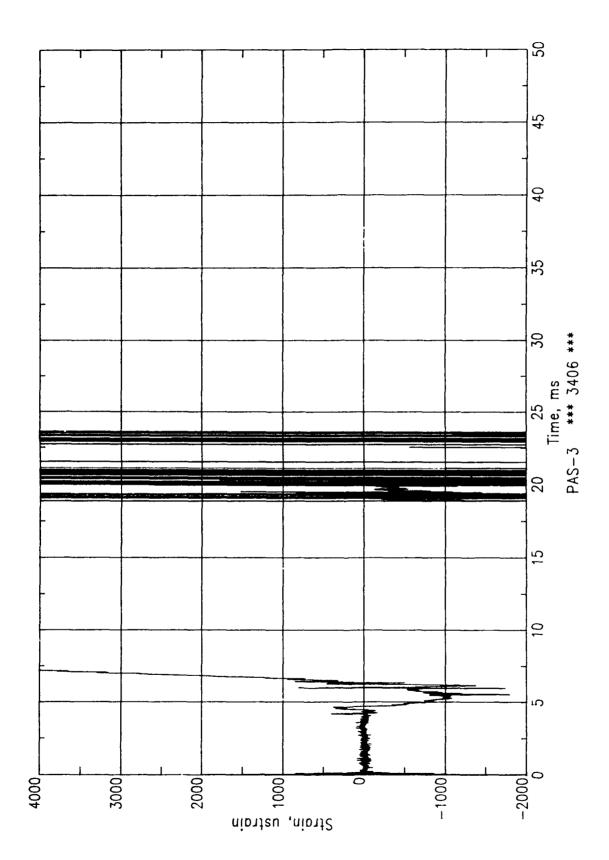


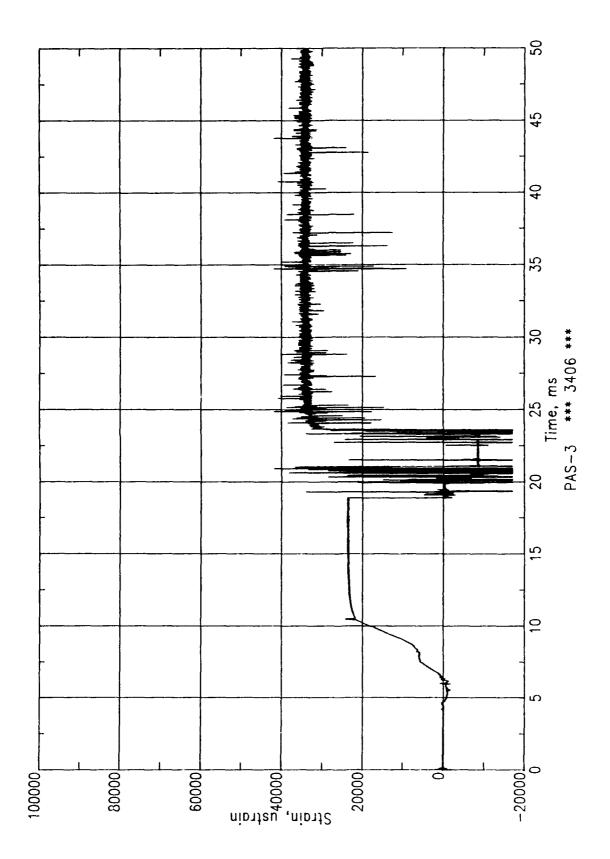


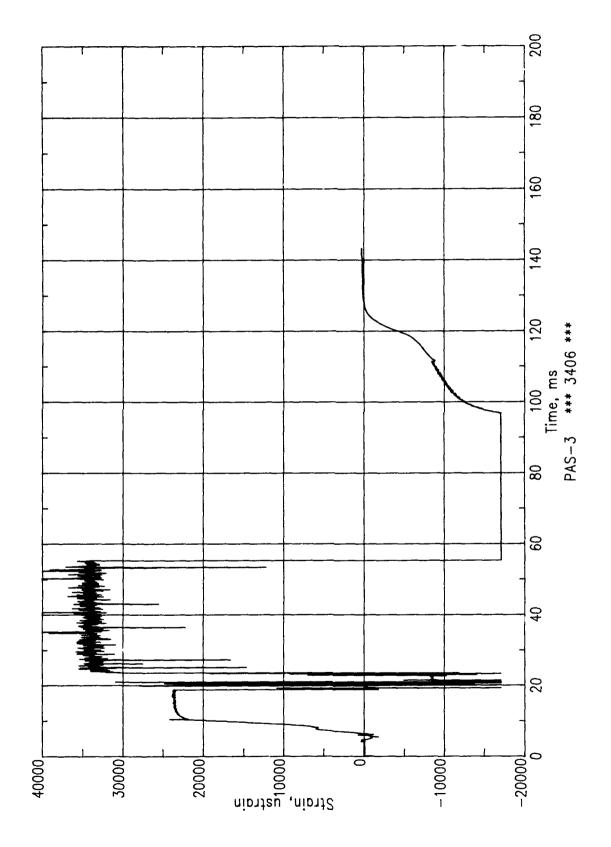












2.0 PAS-3 CONCRETE DEBRIS

2.1 SIEVE DATA

The zone identification numbers and dimensions of the PAS-3 collection zones of the four 5-deg sectors are listed on the next page. The remaining pages present the weight and number of pieces of debris retained on each of the sieves.

																_				
ZONE	AREA	(m^2)	5.45	7.64	9.82	12.00	14.18	16.36	18.54	20.73	22.91	25.09	27.27	29.45	31.63	33.82	36.00	38.18	40.36	42.54
AVERAGE	RADIUS	(m)	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5
OUTSIDE	RADIUS	(m)	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	0.09	65.0	70.0	75.0	80.0	85.0	0.06	95.0	100.0
INSIDE	RADIUS	(m)	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	0.09	65.0	70.0	75.0	80.0	85.0	0.06	95.0
	270 deg. Az.	(No. Side)	NS 1	NS 2	NS 3	NS 4	NS S	9 SN	NS 7	NS &				°Z	Debris	Found				
<i>ILFICATION</i>	180 deg. Az.	(Back)		BK 2	BK 3	BK 4	BK 5	BK 6	BK 7	BK 8	BK 9	BK 10	BK 11	BK 12	BK 13	BK 14	BK 15	BK 16	BK 17	
ZONE IDENTIFICATION	90 deg. Az.	(So. Side)	SS 1	SS 2	SS 3	SS 4	SS 5	9 SS	SS 7				S _o	Debris	Found				-	
	0 deg. Az.	(Front)	FT 1	FT 2	FT 3	FT 4	FT 5	FT 6	FT 7	FT 8	FT 9	FT 10	H 11	FT 12	FT 13	FT 14	FT 15	FT 16	FT 17	FT 18

			WEIGHT	WEIGHT RETAINED ON SIEVE (gm	DON SIE	/E(gm)			
51-38 38-32	38-32	1	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS
_	223.0		287.4	124.7	95.8	139.3	174.2	188.0	1443.9
	184.8		203.5	77.6	60.7	59.1	82.8	105.9	774.4
93.8 46.1	46.1		59.5	35.7	74.1	28.2	0.79	89.7	494.1
	110.7		19.9	33.7	50.3	32.1	42.5	36.4	325.6
	0.0		42.7	0.0	0.0	38.3	26.9	10.9	118.8
	0.0		0.0	14.7	14.9	4.6	9.0	2.8	46.0
	53.9		121.7	18.4	23.7	40.8	32.3	24.7	315.5
	0.0		42.1	49.9	13.5	14.7	23.4	17.1	160.7
	63.7		120.7	0.0	39.2	13.0	20.5	7.1	264.2
	0.0		77.8	0.0	0.0	0.0	24.5	8.1	110.4
	0.0		26.0	0.0	11.6	10.1	6.7	15.7	70.1
	41.8		22.5	0.0	12.4	15.0	28.9	0.0	120.6
	0.0		29.0	0.0	10.2	14.2	13.6	9.4	76.4
	0.0		0.0	0.0	11.7	6.4	0.0	1.4	19.5
	0.0		0.0	0.0	18.3	0.0	0.0	5.1	23.4
	0.0		28.0	0.0	0.0	0.0	11.4	5.0	44.4
	60.1		0.0	16.7	0.0	12.1	22.7	9.9	198.0
_	0.0		35.5	0.0	0.0	0.0	3.3	1.4	40.2
385.1 784.1	784.1		1116.3	371.4	436.4	427.9	589.7	535.3	4646.2

		TOTALS	170	8	70	39	17	7	31	19	18	11	12	12	11	ĸ	4	9	13	B	536	7 8	5	0.56
		13 - 10	61	45	38	16	S		10	7	ю	n	9	0	4	-	7	7	m	H	226	2.4	i	9.0
		16-13	42	19	16	10	9	2	7	\$	S	9	2	7	m	0	0	m	S	-	139	4.7	3.	0.58
Æ		19-16	61	∞	4	4	S	г	9	2	7	0	2	7	7	г	0	0	2	0	09	7.1	*:,	0.55
NUMBER RETAINED ON SIEVE		22 – 19	6	S	9	4	0	2	2	1	m	0	7	1			7	0	0	0	38	11.5		0.56
RETAINE	SIEVE SIZE (mm	25-22	9	4	7	7	0		-	m	0	0	0	0	0	0	0	0	н	0	20	18.6	2	09.0
NUMBER	SIEVE	32-25	6	9	2	1	_	0	4	-	4	7	1	-		0	0	H	0	1	35	31.9		0.57
		38-32	4	т	-1	7	0	0	-	0	7	0	0		0	0	0	0	1	0	14	0 95		0.54
		51-38	2	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	,	Õ	4	96.3		0.46
		64-51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		0.00
	ZONE	I.D.	FT1	FT2	FT3	FT4	FTS	FT6	FT7	FT8	FT9	FT10	FT11	FT12	FT13	FT14	FT15	FT16	FT17	FT18	Totals	Ave Wt		S.F.

				WEIGHT	WEIGHT RETAINED ON SIEVE (am	D ON SIE	JE (am)			
ZONE				111	SIEVES	SIZE (mm)	- 18m			
-	1	3			0 11 0	777				
1.U.	04-21	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS
SS1	0.0	0.0	35.8	43.8	30 5	34.0	27.0	3.46	21.5	
Č			2	2		2.5	7.77	J. 7	C:11	0.677
225	0.0	0.0	0.0	51.0	0.0	16.9	12.6	00	52	04.7
603							į	?	, i	-
CCC	2.5	0.0	0.0	0.0	0.0	17.3	0.0	200	7	77.4
SSA	0.0	0.0	0	0	0	0				
100		2	3	3	3	? 	2.0	٥.٧	C:11	18.7
CCC	0.0	0.0	0.0	0.0	13.5	28.5	77	150	10.3	77.6
988	00	00	00	0	22.2		: t			0.3
		3 (3	> -	C.77	2.5	?:	0:0	o: _	36.9
725	0.0	0.0	0.0	0.0	0.0	10.3	0.0	8.2	22	20.7
Totals	0.0	00	35.8	8 F0	75.2	107.0	0 77	2 70	2 07	
			5,50	0.5	ر.ن.	0./01	40.7	7.00	47.0	495.5

		TOTALC	. 1 .	47	ص	4 (`;	14	∩ <	67	7.6	7.7
		13-10	OI CI	n c	7 •	٦ ٧	n 4	n (o -	22	23	790
		16-13	2	ν .	7 (√ C	7 -	+ 0) C	21	4.1	0.56
Œ		19-16	2	n c	4 6		- C	-	- C	7	14	0.52
NUMBER RETAINED ON SIEVE	ZE (mm)	22-19	7) -	- -	c		, c	· ·	6	11.9	0.58
RETAINE	SIEVE SIZE (mm)	25-22	2	ء د	· ·) C		1 +-	1 0	4	18.8	09.0
NUMBER		32-25	-	, 0	1 C	0	· c	· ·	0	3	31.6	0.57
		38-32		· C	· c	· C	0	0	0	1	35.8	0.35
		51 - 38	0	0	C	0	0	0	0	0	0.0	0.00
		64-51	0	0	0	0	0	0	0	0	0.0	0.00
	ZONE	I.D.	SS1	SS2	SS3	SS4	SSS	SS6	SS7	Totals	Ave. Wt	S.F.

SIEVE(gm)	(m)	19-16 16-13 13-10	178.3 114.7 151.1	66.0 141.2 134.5	204.1 129.1 158.8	39.3 81.1 140.3	39.6 48.7 46.0	51.6 58.2 84.6	0.0 4.9 0.0	0 0.0 2.8 1.7 47.6	0 616 600 600
		-									-
E(gm)	,	-	-	_							-
ON SIEVI	ZE (mm)	22-19	65.8	88.8	117.2	72.3	41.8	13.4	13.6	0.0	112.0
RETAINED	SIEVE SIZ	25-22	72.1	56.9	126.7	0.0	42.2	0.0	0.0	0.0	0 200
WEIGHT RET		32-25	300.0	62.8	134.6	47.3	0.0	0.0	0.0	0.0	2117
		38-32	274.6	102.6	101.9	107.3	101.0	0.0	0.0	43.1	730 5
		51-38	105.9	0.0	172.0	205.8	0.0	0.0	0.0	0.0	483.7
		64 - 51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	00
	ZONE	I.D.	NS1	NS2	NS3	なと	NSS	9SN	NS7	NS8	Totale

		TOTALS	141	115	152	94	4	58	7	3	609	7.1	0.56
		13-10	64	57	29	86	19	36	0	1	303	2.4	0.65
		16-13	28	34	31	19	12	14	1	1	140	4.1	0.57
Æ		19-16	24	6	78	S	S	7	0	0	78	7.4	0.58
NUMBER RETAINED ON SIEVE	(mm)	22-19	9	∞	11	9	4	-	1	0	37	11.2	0.54
RETAINE	SIEVE SIZE (mm	25-22	4	m	7	0	7	0	0	0	16	18.6	09.0
NUMBER	SIE	32-25	6	7	4	-	0	0	0	0	16	34.0	0.61
		38-32	5	7	7	7	7	0	0	1	14	52.2	0.51
		51-38		0	7	2	0	0	0	0	5	2.96	0.46
		64-51	0	0	0	0	0	0	0	0	0	0.0	0.00
	ZONE	I.D.	NS1	NS2	NS3	NS.	NSS	9SN	NS7	NS8		Ave. Wt.	S.F.

		OTALS	5.9	9.2	3.7	6.0	6.5	0.1	7.1	9.9	0.0	7.3	4.3	0.0	0.0	0.0	6.3	1.4	9.3
		707	253	168	204	2950.9	146	115	85.	8	33	35.	33				4	4	14669.3
		13-10	287.3	274.2	338.8	313.5	201.1	114.7	60.5	27.6	13.5	11.7	15.2	0.0	0.0	0.0	2.5	2.6	1663.2
		16-13	276.5	231.3	344.5	325.5	185.9	114.0	81.9	47.6	12.2	10.4	23.5	0.0	0.0	0.0	9.1	4.2	1666.6
Æ (gm)		19-16	229.3	192.1	234.5	285.7	188.8	206.9	67.1	83.8	14.4	30.2	5.4	0.0	0.0	0.0	7.5	14.0	1559.7
DON SIEV	(ZE (mm)	22-19	291.0	195.1	261.3	424.6	279.4	92.2	74.5	97.0	42.3	24.8	31.3	0.0	0.0	0.0	0.0	20.6	1834.1
WEIGHT RETAINED ON SIEVE (gm	SIEVE SIZE (mm	25-22	207.8	101.6	84.5	252.6	174.4	96.2	175.3	58.8	36.3	81.4	21.1	0.0	0.0	0.0	0.0	0.0	1290.0
WEIGHT		32-25	172.3	293.3	320.4	413.9	121.9	123.2	129.4	324.4	90.9	129.8	0.0	0.0	0.0	0.0	27.2	0.0	2146.7
		38-32	732.3	200.2	306.5	390.3	207.5	135.4	268.4	84.0	120.4	0.0	9.98	0.0	0.0	0.0	0.0	0.0	2531.6
		51-38	339.4	201.4	153.2	544.8	107.5	267.5	0.0	143.4	0.0	0.69	151.2	0.0	0.0	0.0	0.0	0.0	1977.4
		64 - 51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ZONE	I.D.	BK2	BK3	BK4	BKS	BK6	BK7	BK8	BK9	BK10	BK11	BK12	BK13	BK14	BK15	BK16	BK17	Totals

				NUMBER	RETAINE	NUMBER RETAINED ON SIEVE	Æ			
	1			SII	SIEVE SIZE (mm	(mm)				
64 - 51	1	51-38	38-32	32-25	25-22	22-19	19-16	16-13	13-10	TOTALS
0		3	12	S	11	26	31	99	121	275
0		2	m	10	9	18	25	55	116	235
Ŭ	_	2	9	11	4	23	32	83	143	304
	0	9	7	13	13	38	39	78	132	326
	0	-	4	4	6	25	56	45	85	199
	0	8	3	4	S	80	53	28	84	128
	0	0	5	4	6	7	6	20	56	80
	0	2	2	10	က	6	11	12	12	61
	0	0	2	<u>س</u>	2	က	7	3	9	21
	0	H	0	4	4	2	4	33	5	23
	0	2	2	0	-	6	-	S	9	20
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	-	0	0	1	7	1	٧,
	0	0	0	0	0	2	2	-		9
		22	46	69	19	164	212	401	702	1683
0	0.0	6.68	55.0	31.1	19.3	11.2	7.4	4.2	2.4	8.7
0.00	0(0.42	0.53	0.56	0.62	0.54	0.57	0.57	0.65	0.56

2.2 DEBRIS LOCATION DATA

Figures B-7 and B-8 on the next two pages show the reference system of the coordinates and the range-azimuth. The coordinates and the range and azimuth of each of the pieces of PAS-3 debris collected in the circular collection area are presented next. The data are sorted by the I.D. number (mark) of each piece. I.D. marks not shown in the listing were not used.

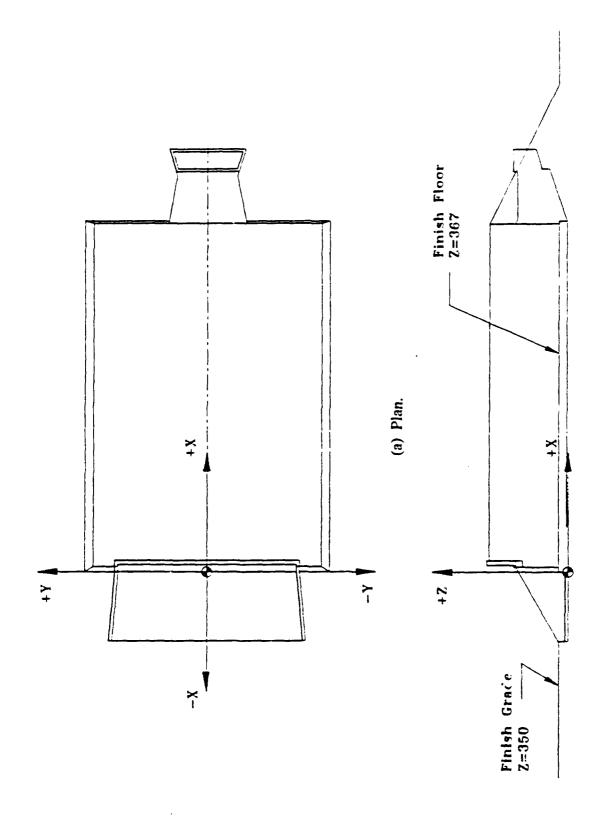


Figure B-7. Structure coordinate system, PAS-3.

(b) Elevation.

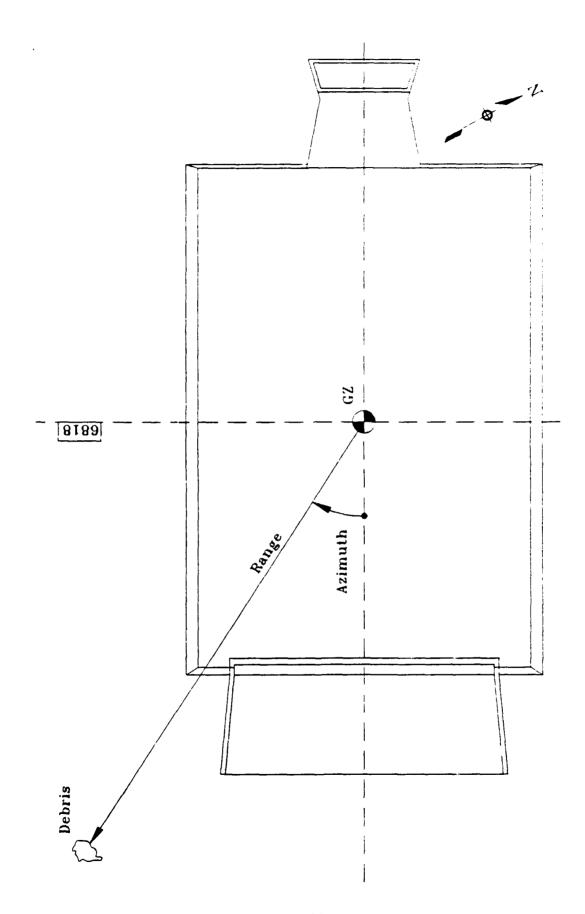


Figure B-8. Range and azimuth reference system, PAS-3.

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
2	-123266	100058	164114	37.57
3	-111077	82334	143799	34.93
4	-98801	80882	133031	37.44
5	-128325	44547	142296	18.24
6	- 126575	29731	136666	12.57
7	-105051	6666	112068	3.41
8	-88416	6874	95482	4.13
9	-73463	-20014	82739	346.00
10	-113970	-38244	126697	342.43
11	-136402	-94728	171713	326.52
12	- 132974	-106186	175549	322.78
13	-140974	-120698	190815	320.76
14	- 187268	-60409	203270	342.71
15	-184455	-61291	200853	342.23
16	49616	-129429	136321	251.70
] 17]	51817	-98572	108358	245.46
18	38150	-84270	89906	249.60
19	57974	-70039	86731	233.86
20	68347	-50572	79646	219.42
21	18188	4510	12231	158.36
22	17717	4647	11848	156.91
23	18484	4386	12464	159.39
24	18804	4938	12964	157.61
25	18288	5428	12690	154.67
26	21273	4275	15074	163.53
27	28374	12433	24885	150.02
28	27827	13017	24715	148.22
29	21202	3423	14785	166.61
30	21023	2684	14456	169.30
31	18773	2721	12261	167.18
32	18154	6947	13295	148.50
33	18815	2961	12357	166.13
40	54836	-4186	48200	184.98
41	62634	1103	55827	178.87
42	59895	3403	53186	176.33
43	34523	7459	28692	164.93
44	34175	3677	27603	172.34
45	31093	1323	24311	176.88
46	30756	1241	23970	177.03
47	33965	-10736	29192	201.58
48	26596	-6152	20713	197.28

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
49	22796	-5106	16774	197.72
50	33932	1407	27150	177.03
51	35653	882	28849	178.25
52	34520	-1095	27723	182.26
53	33724	-505	26911	181.08
54	34740	-150	27923	180.31
55	32144	3929	25629	171.18
56	35737	3732	29159	172.65
57	32122	5650	25928	167.41
58	34896	2965	28234	173.97
59	39676	3388	33032	174.11
60	56631	-435	49815	180.50
61	51540	2268	44780	177.10
62	45058	557	38244	179.17
63	43045	2610	36321	175.88
64	40109	3866	33515	173.38
65	33733	-400	26918	180.85
66	33619	-4264	27138	189.04
67	34932	-5732	28692	191.52
68	38334	-7604	32420	193.56
69	39317	-6152	33077	190.72
70	39808	-6469	33619	191.09
71	42498	-6081	36195	189.67
72	45098	-8286	39167	192.21
73	50558	-6152	44171	188.01
74	48573	-11539	43321	195.45
75	45674	-14000	41301	199.81
76	48455	-17620	45212	202.94
77	51433	-17959	48094	201.93
78	50479	-20494	48232	205.15
79	41979	-13636	37713	201.20
80	37509	-12423	33110	202.04
81	31988	-11069	27496	203.74
82	31738	-7909	26145	197.61
83	27715	-7536	22214	199.83
84	27465	-8472	22317	202.31
85	27727	-8081	22416	201.13
86	23071	-9121	18637	209.30
87	24333	-6219	18587	199.55
88	23658	-2983	17102	190.04
89	22184	- 1705	15460	186.33

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
90	21228	-3070	14733	192.03
91	20748	-2272	14114	189.26
92	21549	-1591	14817	186.16
93	21425	-1136	14651	184.45
94	20960	948	14174	176.16
95	24203	2748	17600	171.02
96	19236	1545	12514	172.91
97	35171	2334	28449	175.29
98	33024	3871	26490	171.60
99	26982	1294	20206	176.33
100	24886	-706	18082	182.24
101	20980	-3639	14622	194.41
102	22210	-3707	15832	193.54
103	19369	-5813	13832	204.85
104	28117	-7253	22500	198.80
105	37411	-4287	30892	187.98
106	38451	-3271	31832	185.90
107	40156	-4451	33634	187.61
108	42317	-3070	35631	184.94
109	46725	-1416	39932	182.03
110	37838	-16625	35194	208.19
111	32628	- 17952	31440	214.82
112	37597	-36695	47894	230.01
113	39135	-38927	50593	230.30
114	46877	-40053	56648	225.00
115	46041	-45954	60417	229.52
116	52530	-46784	65409	225.66
117	26044	-62264	65164	252.84
118	24153	-60944	63362	254.12
119	79924	-51045	89163	214.92
120	85515	-52611	94663	213.76
121	2834	-26827	27121	278.45
122	4128	-28994	29118	275.30
123	5082	-30731	30780	273.23
124	5588	-32056	32079	272.20
125	6830	-25111	25111	269.97
126	10660	-22178	22508	260.17
127	-1542	-18693	20477	294.10
128	1177	-21125	21865	284.95
130	-5527	-13222	18089	313.04
131	-10098	-12430	20992	323.69

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORDINATES		FROM GZ:	
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
132	-7959	-4869	15558	341.76
133	-9310	-3043	16412	349.31
134	-10061	-4047	17357	346.52
135	-14873	-3372	21952	351.16
136	-16077	-4839	23401	348.07
137	-19273	-3485	26322	352.39
138	-22856	~245	29675	359.53
141	-23923	707	30749	1.32
142	-24421	-482	31242	359.12
143	-22259	2993	29230	5.88
144	-27063	150	33881	0.25
145	-28632	-874	35460	358.59
146	-27633	-7336	35224	347.98
147	-32728	-10430	40898	345.23
148	-33140	-5815	40379	351.72
150	-32562	-2606	39467	356.21
151	-30656	-2458	37554	356.25
152	-26952	221	33771	0.38
153	-22215	134	29034	0.26
154	-18423	358	25244	0.81
155	-18114	1103	24956	2.53
156	- 18322	3830	25430	8.66
157	-24597	12709	33889	22.03
158	-13782	-1598	20662	355.56
159	-7512	-1128	14374	355.50
160	-5604	-432	12430	358.01
161	-3793	-1316	10693	352.93
162	-6091	2214	13098	9.73
163	-7598	7456	16230	27.35
164	-6341	6075	14494	24.78
165	-5489	5772	13594	25.13
166	-5366	9439	15413	37.77
167	-3183	12853	16286	52.11
168	-4420	10749	15551	43.73
169	-5894	23152	26413	61.23
170	-3994	21275	23865	63.06
171	-15734	30242	37725	53.29
172	-18927	13604	29118	27.85
173	-18849	8149	26930	17.61
174	-19923	5097	27223	10.79
175	-20478	3441	27512	7.18

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORDINATES		FROM GZ:	
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
176	-21168	773	27997	1.58
177	-40767	-4831	47830	354.20
178	-44426	-6050	51600	353.27
179	-41082	-6563	48347	352.20
180	-40780	-319	47599	359.62
181	-42267	20	49085	0.02
182	-41535	-10056	49388	348.25
183	-45952	-13318	54424	345.84
184	-45805	-18053	55634	341.07
185	-45790	-18066	55624	341.05
186	-41156	- 18901	51563	338.50
187	-58292	-26688	70367	337.71
189	-54532	-35415	70838	330.00
190	-53241	-40112	72222	326.26
191	-46092	-44150	68910	320.16
192	-28210	-31255	46945	318.26
193	-24719	-18571	36599	329.51
194	-23489	-18142	35322	329.10
195	-30158	-18122	41178	333.89
196	-28502	-10187	36760	343.91
197	-27739	-5845	35048	350.40
198	-32708	-8133	40354	348.37
199	-37671	-8990	45388	348.58
200	-38160	-15487	47570	341.00
201	-35025	-16597	45014	338.36
202	-16498	-22414	32342	316.13
203	-17095	-19729	31001	320.48
204	-19520	-15528	30575	329.48
205	- 18495	-14902	29373	329.51
206	-21040	-13468	30943	334.20
207	-21810	-8596	29891	343.29
208	-19408	-11729	28729	335.90
209	-19311	-9005	27637	340.98
210	-20336	-8478	28447	342.66
211	-21386	-8285	29395	343.63
212	-22492	-5192	29766	349.95
213	-25714	-2797	32652	355.09
214	-25445	-765	32272	358.64
215	-24301	2646	31231	4.86
216	-26538	5936	33881	10.09
217	-26031	10858	34597	18.29

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORDINATES		FROM GZ:	
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
218	-32427	9761	40440	13.97
219	-23713	16694	34797	28.67
220	-21390	1257	28236	2.55
221	-20458	351	27278	0.74
222	-22841	-519	29663	359.00
223	-22666	- 1967	29550	356.18
224	-22956	-1912	29836	356.33
225	-21378	-3446	28406	353.03
226	-19014	- 5989	26517	346.95
227	-17720	-7442	25642	343.13
228	-16594	-11215	25959	334.40
229	-16522	-13706	27067	329.58
230	- 16144	-15778	27860	325.51
231	-12802	-19787	27866	314.76
232	-12358	-23722	30503	308.95
233	-8679	-24191	28729	302.64
234	-8508	-21452	26364	305.54
235	-6663	-25237	28612	298.11
236	-9613	- 18471	24722	311.66
237	-12662	- 17454	26156	318.14
238	-13384	-17268	26577	319.48
240	-14440	-16316	26797	322.49
241	-15559	-12510	25637	330.79
242	-17433	-5251	24813	347.78
243	-16735	-7581	24743	342.16
244	-14846	-7825	23034	340.14
245	-15743	-10550	24906	334.94
246	-12715	-13150	23547	326.05
247	-10483	-3366	17625	348.99
248	-13822	-4198	21062	348.50
249	- 14505	- 1491	21375	356.00
250	-15146	-230	21965	359.40
251	-15127	1316	21984	3.43
252	-14786	1600	21663	4.23
253	-15230	3801	22373	9.78
254	-15377	3698	22501	9.46
255	-13982	5347	21476	14.42
256	-13017	1434	19886	4.14
257	- 14165	-251	20984	359.31
258	-14500	-1448	21367	356.11
259	-11777	-821	18613	357.47

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORDINATES		FROM GZ:	
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
260	-11401	-59	18219	359.82
261	-10706	2731	17735	8.86
262	- 10559	2467	17551	8.08
263	-10319	2571	17329	8.53
264	-8329	3643	15579	13.53
265	-4785	5229	12727	24.26
266	-5726	4218	13235	18.59
267	-4403	5949	12701	27.93
269	-4169	1630	11107	8.44
270	-3037	-375	9862	357.82
271	-7559	- 18547	23467	307.78
272	~7115	- 17891	22676	307.91
273	-7485	-11611	18423	320.93
274	- 7 049	-11689	18136	319.87
275	8036	-10752	18337	324.10
276	-9348	-7762	17933	334.35
277	-10682	-7300	18962	337.36
278	-8545	-5783	16415	339.37
279	-7908	-6432	16070	336.40
280	-7374	-5525	15230	338.73
282	-9275	-4532	16719	344.27
283	-8606	-4332	16021	344.31
284	-7074	-2897	14191	348.22
285	-6836	-2730	13925	348.69
286	-6148	-3052	13320	346.76
287	-5799	-2675	12897	348.03
288	- 5996	-2740	13104	347.93
289	-5310	-5361	13260	336.15
290	-5312	-6072	13565	333.41
292	-5377	-7678	14411	327.81
294	-6904	-7562	15667	331.14
295	-7026	-7260	15632	332.33
296	-6122	-15745	20380	309.41
297	-6543	-19882	23955	303.90
298	-3041	-20873	23084	295.28
299	-1713	-21825	23433	291.35
300	-828	-22399	23668	288.85
301	-584	-23071	24230	287.79
302	-457	-22852	23982	287.66
303	118	-22978	23934	286.26
304	-24	-23399	24379	286.30

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORDINATES		FROM GZ:	
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
305	-302	-23285	24349	287.00
306	-2074	-23100	24752	291.05
307	-2786	-26880	28544	289.66
308	- 1881	-29577	30830	. 286.39
309	- 1290	-30302	31368	284.98
310	-1328	-34094	35054	283.44
311	145	-31009	31719	282.14
312	3081	-32908	33119	276.48
313	3764	-36494	36621	274.78
314	2594	-25151	25503	279.53
315	384	-26906	27664	283.45
316	1224	-23392	24052	283.45
317	1584	-23235	23817	282.69
318	1548	-24867	25419	281.97
319	3099	- 26004	26269	278.14
320	2882	-23092	23425	279.67
321	2833	-22765	23111	279.93
322	3594	-22303	22535	278.22
323	3247	-23377	23649	278.68
325	4315	-21375	21521	276.68
326	4072	-20936	21115	277.47
328	4334	-21714	21856	276.53
329	2884	-13430	13994	286.32
330	2994	-13173	13717	286.19
331	3341	-13343	13789	284.61
332	5065	-22977	23044	274.36
333	5045	-12703	12827	277.94
334	4627	-12216	12411	280.17
335	3818	-9395	9862	287.71
336	3808	-9586	10047	287.43
337	5875	-9656	9702	275.58
338	6388	-9052	9062	272.72
339	6578	-8351	8355	271.64
340	6257	-7813	7833	274.11
341	8373	-10072	10191	261.22
342	7346	-11454	11466	267.36
343	7004	-11092	11093	269.04
344	7268	-12013	12022	267.86
345	7405	-11425	11440	267.06
346	7535	-10906	10930	. 266.24
347	6144	-10634	10655	273.63

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
348	8459	-10805	10928	261.37
349	9054	-9933	10182	257.31
350	9415	-10718	11028	256.38
351	9161	-12689	12903	259.54
352	8789	-12745	12897	261.21
353	8941	-23849	23944	264.91
354	6280	-26483	26488	271.16
355	6178	-26764	26772	271.37
356	6029	-24496	24508	271.85
357	12958	-11858	13354	242.63
358	10027	-9685	10203	251.67
359	10170	-9732	10293	250.99
360	14025	-8441	11099	229.51
361	15224	-12043	14686	235.09
362	14124	-12992	14905	240.65
363	19828	-15723	20408	230.39
364	20028	-4262	13880	197.88
365	20566	-2104	13908	188.70
366	25718	-3222	19172	189.67
367	24725	-2864	18134	189.09
368	23329	-3258	16830	191.16
369	27337	-3878	20882	190.70
370	28470	-3756	21976	189.84
371	34901	1733	28136	176.47
372	34427	799	27621	178.34
373	31830	2682	25156	173.88
374	29241	1908	22504	175.14
375	33504	1129	26710	177.58
376	33222	1046	26425	177.73
377	25085	955	18291	177.01
378	24848	306	18033	179.03
379	23019	1508	16271	174.68
380	23442	2625	16830	171.03
381	25003	2873	18410	171.02
382	27110	3746	20635	169.54
383	22126	1515	15383	174.35
384	3643	26305	26496	83.12
385	1771	25016	25520	78.59
386	207	24579	25452	74.95
387	-2242	25447	27012	70.40
388	-2694	22744	24653	67.30

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

ſ	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
389	-62	20897	22001	71.78
390	-153	23357	24376	73.38
391	5262	23815	23866	86.26
392	2384	18668	19187	76.64
393	5941	16609	16632	86.98
394	5783	14852	14888	86.01
395	-268	29852	30681	76.65
396	10549	49472	49612	94.31
397	9086	54596	54643	92.38
398	-6559	1523	13463	6.50
399	-6441	1381	13331	5.94
400	-4139	1654	11081	8.58
401	-3387	1384	10298	7.72
402	-2801	810	9653	4.81
403	-4991	-713	11830	356.54
404	-6979	-845	13823	356.49
405	-9091	-2206	16062	352.10
406	-9587	-1765	16500	353.86
407	- 10490	-4024	17770	346.91
408	-10266	-3641	17467	347.97
409	-11450	-3495	18599	349.17
410	-10623	-4860	18106	344.43
411	-6884	-7517	15629	331.25
412	-6957	-7798	15829	330.48
413	-5380	-7642	14394	327.93
414	-2832	-5986	11356	328.19
415	-3166	-5244	11277	332.29
416	- 18619	4160	25775	9.29
417	-66760	6017	73823	4.67
418	-73703	1722	80540	1.23
419	-84781	10143	92159	6.32
420	-61871	-14311	70164	348.23
421	-56027	15545	64739	13.89
422	-73531	20466	82915	14.29
423	-70847	15724	79241	11.45
424	-86938	47729	105206	26.98
425	-95569	47411	112831	24.85
426	-79254	46143	97660	28.20
427	-76245	52535	98283	32.31
428	-52538	35008	68911	30.53
429	-67991	11561	75697	8.78

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
430	-33001	26378	47763	33.52
431	-38939	20350	50078	23.98
432	-2827	17753	20204	61.49
433	-2390	20698	22654	66.02
434	-3187	20337	22665	63.80
435	-1394	16189	18152	63.10
436	-278	17324	18721	67.73
437	130	18429	19605	70.05
438	1393	18406	19189	73.58
439	-1379	19204	20881	66.88
440	-3232	15668	18614	57.32
441	-2676	13428	16445	54.74
442	-2353	11485	14698	51.39
443	-2677	9694	13569	45.59
444	-2231	9104	12836	45.18
445	-3998	5691	12222	27.75
446	-6573	5762	14578	23.28
447	-6771	5442	14639	21.83
448	-7414	2571	14462	10.24
449	-5607	3288	12853	14.82
450	-6357	3153	13547	13.46
451	-7022	3501	14276	14.19
452	-7145	3327	14354	13.40
453	-7749	2340	14754	9.13
454	-10041	1607	16935	5.45
455	-10639	1704	17540	5.57
456	-11752	2460	18732	7.55
457	-10263	-376	17085	358.74
458	-10413	-403	17236	358.66
459	-9490	-763	16326	357.32
460	-6393	-934	13244	355.96
461	-6669	-1116	13533	355.27
462	-5545	-532	12375	357.54
463	-4613	-2311	11662	348.57
464	-4386	-4543	12090	337.93
465	-3290	-3794	10797	339.43
466	-3135	-3415	10522	341.06
468	-3407	-2861	10618	344.37
469	-3118	-2007	10137	348.58
470	-4066	-380	10891	358.00
471	-2945	4914	10930	26.72

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
472	- 1976	7001	11241	38.52
473	1127	11095	12469	62.85
474	2726	7759	8772	62.19
475	14438	7534	10716	135.32
476	16712	8257	12887	140.15
477	20686	801	13892	176.69
478	21065	827	14271	176.68
479	21353	56	14535	179.78
480	22899	1670	16167	174.07
481	24215	404	17401	178.67
482	23594	984	16805	176.64
483	24303	-302	17488	180.99
484	27565	-2902	20949	187.96
485	24346	5897	18494	161.40
486	28335	-4411	21965	<u>1</u> 91.58
487	31606	-4897	25267	191.18
488	32449	-6821	26523	194.90
489	31306	~6294	25284	194.41
490	30931	-3510	24367	188.28
491	35460	-5348	29137	190.58
492	34402	-1505	27625	183.12
493	34385	-1347	27600	182.80
494	34991	595	28179	178.79
495	36740	1952	29985	176.27
496	35104	4027	28572	171.90
497	35398	4341	28908	171.36
498	36242	2177	29505	175.77
499	37950	2074	31201	176.19
500	38898	1906	32137	176.60
501	38239	1397	31452	177.45
502	41152	3567	34519	174.07
503	40778	3558	34146	174.02
504	41665	4800	35176	172.16
505	38632	6623	32496	168.24
506	37159	9030	31657	163.43
507	38497	9321	33022	163.60
508	40052	12889	35646	158.80
509	43781	8253	37873	167.41
510	36087	11211	31342	159.04
511	42087	2376	35349	176.15
512	43363	3281	36692	174.87

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
513	44036	3269	37361	174.98
514	44266	1812	37491	177.23
515	44712	-629	37899	180.95
516	44468	-69	37650	180.10
517	46524	-1893	39751	182.73
518	45448	-4727	38918	186.98
519	38830	-1541	32050	182.76
520	38782	-1419	31995	182.54
521	38889	-2232	32148	183.98
522	39059	-1825	32293	183.24
523	40253	355	33437	179.39
524	41269	1764	34496	177.07
525	51419	-1987	44645	182.55
526	52701	-3536	46019	184.41
527	54098	-1645	47309	181.99
528	55043	1346	48244	178.40
529	54944	1391	48146	178.34
530	51655	4862	45100	173.81
531	52207	5443	45714	173.16
532	53055	5328	46543	173.43
533	46776	5861	40385	171.66
534	1858	18150	18815	74.71
535	53425	6756	47095	171.75
536	56670	9495	50748	169.22
537	53210	4206	46582	174.82
538	53763	4266	47138	174.81
539	53800	2112	47030	177.43
540	53061	-4802	46492	185.93
541	59860	-307	53043	180.33
542	62675	–7754	56393	187.90
543	46637	6380	40327	170.90
544	58988	-10113	53141	190.97
545	58820	-10171	52987	191.07
546	58775	-10065	52923	190.96
547	60540	-9411	54540	189.94
548	37243	1352	30455	177.45
549	34663	2241	27935	175.40
550	33625	2186	26896	175.34
551	33104	1958	26359	175.74
552	32229	1875	25481	175.78
553	30282	1748	23529	175.74

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
554	26874	1051	20083	177.00
555	25701	3485	19202	169.54
556	31495	-1017	24698	182.36
557	31877	-1220	25088	182.79
558	42884	-5569	36493	188.78
559	43564	-4817	37060	187.47
560	43836	-3598	37192	185.55
561	44152	- 3040	37458	184.66
562	44469	-3109	37779	184.72
563	43074	2553	36346	175.97
564	45042	7816	39015	168.44
565	48359	5719	41933	172.16
566	47470	4159	40864	174.16
567	48585	2184	41824	177.01
568	48702	1525	41912	177.91
569	49361	-5142	428 53	186.89
570	<i>5</i> 04 05	-8320	44387	190.89
571	51104	-7596	44933	189.73
572	55112	-8799	49089	190.33
573	61174	-2741	54425	182.89
574	61169	-1239	54365	181.31
575	64743	-6454	58284	186.36
576	66516	-7224	60134	186.90
577	66292	-4249	59625	184.09
578	70423	-1443	63621	181.30
579	71524	-683	64710	180.60
580	72407	- 1864	65615	181.63
581	62924	2690	56170	177.25
582	67411	14840	62384	166.24
583	62652	14555	57700	165.39
584	77608	11089	71653	171.10
585	73699	5336	67094	175.44
586	85553	14020	79974	169.90
587	85444	14027	79868	169.88
588	86462	13556	80789	170.34
589	89979	12699	84125	171.32
590	87194	1410	80389	178.99
591	92780	-6204	86185	184.13
592	102595	-4782	95896	182.86
593	104289	483	97473	179.72
594	115633	-2433	108842	181.28

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
595	119016	-10231	112663	185.21
596	123853	-9790	117444	184.78
597	121940	-1483	115131	180.74
598	144747	5683	138046	177.64
599	148084	4829	141349	178.04
600	160228	535	153411	179.80
601	159725	3019	152973	178.87
602	145780	- 14788	139746	186.07
603	138672	- 18348	133124	187.92
604	119183	-25756	115279	192.91
605	115988	-26062	112238	193.43
606	112234	-28782	109275	195.27
610	26780	23478	30817	130.37
611	31318	5805	25178	166.67
612	29007	10028	24350	155.68
613	33289	-1375	26506	182.97
614	34369	859	27564	178.21
615	33052	451	26238	179.01
616	31283	-291	24467	180.68
617	27520	236	20703	179.35
618	27923	3601	21410	170.32
619	29286	5500	23131	166.25
620	29945	7391	24279	162.28
621	37639	1095	30841	177.97
622	112002	7404	105444	175.97
623	148165	49925	149905	160.55
624	149046	50534	150938	160.44
625	162663	47263	162854	163.13
626	175527	6283	168826	177.87
627	123347	-61335	131685	207.76
628	96446	-72362	115194	218.92
629	82501	-65424	100041	220.84
630	76582	-56624	89851	219.06
631	60159	-45067	69831	220.19
632	55661	-25656	55171	207.71
633	64662	-12076	59092	191.79
634	77741	-16092	72725	192.78
635	80409	-16088	75329	192.33
636	91919	-5827	85300	183.92
637	113372	-9088	106941	184.87
638	113217		106809	185.02

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY LOCATIONS

	COORD	INATES	FRO	M GZ:
I.D.	X	Y	RANGE	AZIMUTH
MARK	(mm)	(mm)	(mm)	(deg)
639	111426	-13341	105455	187.27
640	98124	-20639	93609	192.74
641	78019	5752	71433	175.38
642	-78326	32074	90985	20.64
643	-112803	31480	123694	14.74
644	-133352	36057	144734	14.43
645	-147539	35648	158420	13.00
646	-157246	38657	168557	13.26

2.3. DEBRIS IDENTIFICATION DATA

The measured and observed characteristics of each piece of PAS-3 debris collected in the circular collection area are presented. The shape factor was calculated based on the weight and dimensions for each piece. The data are sorted by the I.D. number (mark) of each piece. I.D. marks not shown in the listing were not used.

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.5351	0.3424	0.3676	0.5925	0.3935	0.5315	0.4873	0.5101	0.3774	0.3825	0.5869	0.5479	0.3797	0.3220	0.4216	0.4033	0.4163	0.6053	0.3744	0.4024	0.4478	0.3335	0.2541	0.3854	0.3424	0.3225	0.5783	0.5210
OTHER	IDENTIFYING	MARKS	1 White Side	1 White Side	1 White Side				1 White Side	1 White Side		1 White Side	1 Flat side	2 Flat Sides	2 Flat Sides	2 Flat sides		1 Flat Side	1 White Side	1 White Side	1 Flat Side									
R	BEAD	ì				_			Ö		Ö							ĸ		ĸ								ĸ	ፚ	
COLOR	CONCRETE		R	×	RY	œ	œ	~	>	Z	>	B/Y	~	>	ĸ	>	~	~	>	>	>	Z	Z	Z	z	>	Z	>	>	Z
WEIGHT	(mg)		219.6	67.3	78.6	195.9	192.2	390.4	1065.7	80.8	181.1	206.0	141.9	164.9	173.3	119.0	51.0	96.1	391.2	199.7	1164.4	251.5	140.3	102.4	79.7	70.3	163.1	1125.1	527.4	315.1
S	HEIGHT	(mm)	30	28	36	41	42	55	75	15	34	34	39	38	46	40	30	39	45	47	64	40	33	39	45	19	45	95	80	42
DIMENSIONS	WIDTH	(mm)	9	45	55	09	51	53	06	55	26	09	41	55	53	70	28	38	9	45	135	42	43	41	37	20	63	85	20	50
	LENGTH	(mm)	95	9	45	26	95	105	135	80	105	110	63	09	78	55	09		145	65	150	155	92	08	78	80	20	180	95	120
	I.D. MARK		2	m	4	2	9	7	∞	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3216	0.4824	0.4198	0.3737	0.7599	0.4553	0.3693	0.6281	0.4501	0.4121	0.5915	0.4561	0.4591	0.5452	0.5600	0.6146	0.5274	0.4888	0.3429	0.6237	0.4987	0.4436	0.5460	0.5668	0.4158	0.4906	0.3827	0.4851
OTHER	IDENTIFYING	MARKS	1 Flat Side	1 Flat Side	1 Flat Side	1 Flat Side	1 White Side	1 White Side	1 Flat Side	1 White Side	1 White Side	1 White Side	1 Flat side	1 White Side	===	2 Flat Sides	1 Flat Side		1 Flat Side	1 Flat Side	1 Flat Side	1 Flat Side				1 Flat Side	1 Flat Side	1 Flat Side	1 Flat Side	
R	BEAD						>	ĸ		ĸ	ĸ			ĸ																
COLOR	CONCRETE		Z	z	z	z	>	>	Z	>	>	>	Z	7	>	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	z	Z	z
WEIGHT	(mg)		283.4	208.4	108.8	110.5	11893.2	3845.2	527.7	7661.9	2079.4	2558.6	1776.2	5376.3	433.5	961.8	1467.6	1840.9	1820.4	885.0	388.7	550.1	816.9	791.0	461.5	1240.6	1624.6	1270.7	1719.5	1190.6
1 3	HEIGHT	(mm)	36	20	20	32	75	120	63	82	100	88	99	95	43	20	91	99	94	80	<i>L</i> 9	70	70	92	62	80	80	80	06	75
DIMENSIONS	WIDTH	(mm)	09	40	45	20	235	115	06	130	77	140	110	220	75	100	80	120	85	82	75	20	75	85	71	120	110	95	130	101
	LENGTH	(mm)	170	8	120	77	370	255	105	460	250	210	175	235	122	105	150	160	180	115	94	105	130	115	08	95	185	142	160	135
	I.D. MARK		Q; ;	31	32	33	40	41	42	43	44	45	46	47	48	46	20	51	52	53	54	55	99	57	28	59	09	61	62	63

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3827	0.3388	0.3794	0.3566	0.2209	0.3255	0.3859	0.3505	0.4249	0.4462	0.4946	0.5155	0.3871	0.6033	0.5524	0.3576	0.4101	0.4380	0.5573	0.4268	0.6677	0.4248	0.5021	0.3154	0.2711	0.4582	0.4374	0.2748
OTHER	IDENTIFYING	MARKS				1 White Side	1 Flat Side	1 White Side						1 Flat Side	1 Flat side	1 Flat side	1 Flat side		· 1 Flat side	1 Flat side		1 White Side	1 White Side	1 White Side	2 Flat Sides	1 Flat Side		2 Flat Sides	1 Flat Side	1 White Side
R	BEAD					ĸ																ĸ		ĸ						ĸ
COLOR	CONCRETE		Z	Z	Z	>	Z	>	z	Z	Z	Z	Z	z	z	z	z	Z	z	Z	>	>	>	>	z	z	z	Z	z	Y
WEIGHT	(mg)		671.2	200.5	580.1	174.6	392.9	225.6	255.6	388.6	8.099	272.1	766.8	603.1	720.7	814.5	189.6	685.6	243.1	523.7	314.2	1319.2	1548.1	1101.2	981.8	439.8	251.6	1108.5	1085.1	637.8
St	I	(mm)	08	40	99	51	09	70	46	52	06	99	80	75	71	75	40	58	40	45	28	80	70	75	73	70	65	80	92	52
DIMENSIONS	WIDTH	(mm)	105	80	65	20	95	75	80	80	80	55	85	65	95	75	55	95	65	06	45	115	115	96	06	83	70	100	80	120
1	H	(mm)	87	100	175	80	130	55	75	105	96	70	95	100	115	100	65	145	95	123	06	140	120	160	124	100	85	126	170	155
	I.D. MARK		49	65	99	19	89	69	70	71	72	73	74	75	92	77	78	79	80	81	82	83	84	85	98	87	88	68	06	91

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3953	0.3521	0.6923	0.3627	0.4457	0.3228	0.4097	0.3720	0.5037	0.5441	0.3014	0.5135	0.2654	0.4830	0.6179	0.3540	0.5064	0.5727	0.3639	0.3370	0.3346	0.4480	0.3697	0.4764	0.2676	0.7492	0.5488	0.5419
OTHER	IDENTIFYING	MAKKS	1 Flat Side	2 Flat Sides	2 Flat Sides	2 Flat Sides	1 Flat Side		1 Flat Side	1 Flat Side				2 Flat Sides	1 White Side	1 Flat Side	1 Flat Side		1 Flat Side	-		1 White Side	1 White Side	1 White Side	1 White Side		1 White Side	1 White Side	1 White Side	2 Flat Sides
R	BEAD																							ፚ		ĸ	>	R/B		
COLOR	CONCRETE		z	Z	z	z	z	z	z	z	z	z	z	z	>-	z	z	>	z	z	z	>-	>-	B/R	>	æ	>	>	>	Z
WEIGHT	(mg)		0.999	831.8	3082.6	799.1	3575.4	353.9	200.1	175.3	482.3	416.2	182.3	1404.9	192.7	290.7	976.2	353.3	1143.4	355.6	319.2	9.779	150.7	176.7	497.8	172.7	231.1	694.8	751.2	619.8
IS	工	(mm)	65	73	105	85	95	42	37	35	57	61	35	09	20	40	78	45	84	33	20	95	40	44	09	26	41	09	55	88
DIMENSIONS	WIDTH	(mm)	80	93	114	06	155	87	55	55	20	55	80	95	55	57	87	77	80	80	98	09	51	45	55	70	65	96	82	57
1	HI	(mm)	135	145	155	120	227	125	100	102	140	95	06	200	110	110	6	120	140	86	85	147	92	83	170	83	135	115	122	95
	I.D. MARK		92	93	94	95	96	97	86	66	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3862	0.5444	0.5265	0.5381	0.4977	0.3055	0.4457	0.4500	0.5398	0.5667	0.4930	0.3893	0.4739	0.5600	0.5047	0.5274	0.5146	0.4289	0.4133	0.5436	0.3317	0.8677	0.3585	0.3776	0.4081	0.2212	0.5180	0.4180
OTHER	IDENTIFYING	MARKS	1 White Side			1 White Side	1 White Side	1 White Side		1 White Side			1 White w/Black Si	1 White Side				1 White Side	1 White Side				1 White Side	1 White Side	1 Flat Side					
R	BEAD			>	>	>		>	> -		ĸ	В							Ö								Ö	Ö		
COLOR	CONCRETE		Υ	>	>	>	>	>	> -	>	>	>	R/B	z	z	æ	Z	æ	>	Z	z	8	>	z	z	z	>	>	z	z
WEIGHT	(mg)		216.9	7248.4	1061.4	2231.7	502.6	0.689	217.2	518.4	829.9	3978.0	354.0	971.3	533.6	514.9	4676.5	297.7	868.9	782.4	654.7	430.4	1187.4	653.1	323.4	306.2	661.2	6.669	169.7	133.7
SI	HEIGHT	(mm)	45	08	09	09	55	58	48	40	73	99	44	06	51	98	06	49	29	80	75	35	99	56	29	41	20	78	09	34
DIMENSIONS	WIDTH	(mm)	65	190	100	160	51	120	47	75	75	200	80	110	115	55	130	09	105	95	80	65	153	80	99	80	06	130	35	56
I	LENGTH	(mm)	08	365	140	180	150	135	06	160	117	225	82	105	80	81	330	80	100	100	110	145	150	70	85	103	150	130	65	70
	I.D. MARK		120	121	122	123	124	125	126	127	128	130	131	132	133	134	135	136	137	138	141	142	143	144	145	146	147	148	150	151

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.1322	0.3640	0.3726	0.4816	0.5573	0.6148	0.4825	0.3776	0.3839	0.3907	0.4214	0.2840	0.5243	0.3857	0.3543	0.6095	0.4140	0.4392	0.3735	0.3536	0.4308	0.3641	0.3768	0.4839	0.1455	0.3858	0.4217	0.4150
OTHER	IDENTIFYING	MARKS		1 Flat Side		1 Flat Side	1 Flat Side	1 White Side	1 White w/Black Si	1 White Side		1 White Side			1 Flat side	1 White Side	1 Flat side			1 White Side	1 White Side	1 White Side	2 Flat sides/1 White		1 White Side	2 White Sides		1 White Side	1 White Side	
R	BEAD									>							>				>	В						Ů	ڻ ٽ	
COLOR	CONCRETE		Z	Z	B/R	~	Z	R/B	Z	>	æ	>	>	~	Z	œ	>	>	>	>	>	>	В	>	z	Z	œ	>	>-	Z
WEIGHT	(gm)		131.9	373.7	432.8	180.6	681.1	882.3	2907.5	429.9	3869.1	441.0	426.7	1258.9	211.4	155.5	510.2	702.9	699.5	290.4	98.6	130.7	322.6	365.7	118.5	107.3	116.8	340.0	666.1	125.5
S	HEIGHT	(mm)	44	62	55	31	40	80	06	55	85	57	45	52	30	21	80	70	80	28	20	55	52	20	42	24	44	45	65	42
DIMENSIONS	WIDTH	(mm)	70	09	80	45	95	65	180	75	190	75	75	145	70	80	09	48	80	20	40	35	80	62	48	55	40	89	75	50
1	LENGTH	(mm)	135	115	110	112	134	115	155	115	260	110	125	245	80	100	125	143	110	95	55	80	75	135	65	70	190	120	135	09
	I.D. MARK		152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.4622	0.4558	0.3932	0.6511	0.5246	0.3019	0.2935	0.4315	0.5320	0.4583	0.4423	0.4055	0.3571	0.3645	0.5116	0.3688	0.3548	0.5567	0.4456	0.4547	0.3072	0.4554	0.3883	0.3822	0.2862	0.3433	0.2855	0.2770
OTHER	IDENTIFYING	MARKS		1 White Side		1 White Side	1 White Side		1 Flat White Edge	1 Flat Side W/Red		1 Flat side		1 White Side	1 White Side	1 White Side w/Bl	1 Flat Side			1 White Side	1 Flat Side	1 Flat Side	1 White Side		1 Flat Side	1 White Side				
R	BEAD																													
COLOR	CONCRETE		Z	Z	B	Z	~	*	>	Z	Z	>	>	z	Z	Z	}	>	Z	Z	>	>	>	æ	ĸ	Z	ĸ	æ	x	8
WEIGHT	(mg)		6.869	9.88	131.8	191.8	197.9	81.5	261.5	153.1	63.9	297.9	757.6	274.2	108.6	198.2	529.5	108.0	84.0	135.8	92.4	188.4	97.9	60.5	289.3	173.8	118.7	64.6	112.5	225.0
S	HEIGHT	(mm)	75	24	35	38	31	25	53	40	13	45	65	49	33	45	20	31	29	22	20	52	32	25	58	33	36	28	35	47
DIMENSIONS	WIDTH	(mm)	20	45	38	38	65	09	89	42	55	59	06	20	09	53	69	48	54	70	54	40	20	41	53	99	09	40	51	80
	LENGTH	(mm)	120	75	105	82	78	75	103	88	70	102	122	115	64	95	125	82	63	99	80	83	83	54	101	87	80	70	92	06
	I.D. MARK		180	181	182	183	184	185	186	187	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	506	207	208

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3698	0.4204	0.4574	0.4699	0.3990	0.3432	0.3171	0.3817	0.4216	0.3638	0.3405	0.3794	0.5038	0.3471	0.3112	0.4437	0.4640	0.3480	0.3126	0.4281	0.4939	0.2912	0.5117	0.4576	0.3878	0.4103	0.3626	0.4091
OTHER	IDENTIFYING	MARKS	1 Flat Side		1 White Side	-		1 White Side		1 White Side	1 White Side	1 Flat Side		1 White Side	1 Flat Side	1 White Side	1 White Side	1 White Side	1 Flat Side	1 White Side	1 White Side		1 White Side							
R	BEAD		ပ				В																			Ö		Ö		
COLOR	CONCRETE		>	>	z	~	>	~	z	æ	æ	>	æ	z	ĸ	æ	>	æ	B/R	×	R/B	æ	Z	Z	æ	R/B	R/B	B/R	>	>
WEIGHT	(mg)		109.6	141.4	82.6	64.2	77.8	45.2	115.2	62.8	90.3	108.8	99.1	104.9	66.5	162.7	124.7	57.5	61.0	106.0	264.7	171.8	818.0	124.4	278.5	416.9	75.5	102.8	105.5	101.8
1 1	HEIGHT	(mm)	76	28	19	23	25	28	43	18	21	35	35	48	25	31	35	24	15	25	26	38	124	34	58	99	20	99	38	40
SIMENSIONS	WIDTH	(mm)	2	55	55	45	50	78	55	56	50	40	55	40	44	09	53	30	44	54	09	55	53	89	46	73	52	30	28	36
 	LENGTH	(mm)	દ	91	72	55	65	20	64	89	82	68	63	09	20	105	6	75	83	94	105	 08	105	11	85	80	78	58	55	72
	I.D. MARK	1000	607	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

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SHAPE	FACTOR		0.4443	0.2469	0.3590	0.3099	0.4660	0.3491	0.2678	0.3264	0.3887	0.4801	0.4295	0.3342	0.3096	0.4531	0.4556	0.3126	0.5385	0.3456	0.4386	0.4758	0.4560	0.4155	0.4111	0.2821	0.5138	0.2508	0.3683	0.3292
OTHER	IDENTIFYING	MARKS	1 White Side	1 White Side	1 White Side	1 White Side	====	1 White Side			1 White Side	2 Flat Sides	1 Flat Side	1 White Side	1 Flat Side	1 Flat Side	1 White Side				1 Flat Side	1 Flat Side	1 Flat Side		1 Flat Side	! Flat Side	1 Flat Side		1 Flat Side	1 White Side
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COLOR	CONCRETE		R.	æ	æ	24	z	Z	ĸ	ĸ	ĸ	Z	Z	×	>	Z	>	Z	>	ĸ	æ	ĸ	ĸ	>	~	ĸ	~	\	ĸ	æ
WEIGHT	(mg)		403.1	179.2	176.4	55.5	202.3	7.66	8.86	58.6	71.8	498.5	188.4	163.4	139.4	196.4	83.1	142.7	219.7	231.1	120.8	130.0	137.9	93.2	88.0	88.9	110.7	128.0	87.5	86.9
! !	HEIGHT	(mm)	42	32	39	20	<i>L</i> 9	34	29	17	40	32	44	47	35	35	20	38	40	36	30	23	35	31	34	24	21	45	30	20
DIMENSIONS	WIDTH	(mm)	75	96	20	41	45	20	53	55	37	104	62	51	<i>L</i> 9	09	40	65	20	98	45	55	40	45	43	57	45	63	44	55
1 1	H	(mm)	120	105	75	91	09	70	100	08	52	130	<i>L</i> 9	82	08	98	95	77	82	06	82	<u></u>	<u>6</u>	29	61	96	95	75	75	100
	I.D. MARK		237	238	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	790	261	262	263	264	265

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.4909	0.5681	0.4745	0.6110	0.2751	0.3838	0.5627	0.3860	0.4806	0.3837	0.4968	0.3987	0.4753	0.2970	0.4848	0.4262	0.2640	0.4083	0.5699	0.4445	0.2478	0.5211	0.4066	0.5807	0.4428	0.3283	0.2952	0.5817
OTHER	IDENTIFYING	MARKS				1 Flat Side	1 White Side	1 White Side		1 White Side	1 Flat Side	1 Flat Side	1 Flat Side	1 White Sid	1 White Side	I' White Side	1 White Side	1 White Side	1 Flat Side	1 Flat Side		1 Flat Side		2 Flat Sides	2 Flat Sides	1 Flat Side	1 Flat Side	1 White Side		1 Flat Side
8	BEAD		╁	_						>	_	Ö	Ŋ		_	>											U			
COLOR	CONCRETE		٨	>	>	z	\	>-	>	>	Z	>-	×	~	8	>	24	æ	>	æ	>	z	ĸ	z	z	z	>	æ	z	B/R
WEIGHT	(mg)		118.2	212.7	386.2	498.6	190.8	147.9	184.5	163.0	181.0	595.2	118.8	107.4	430.5	182.3	91.6	105.6	65.0	80.7	159.4	178.1	74.4	287.0	360.1	435.0	383.0	131.9	105.3	73.1
	HEIGHT	(mm)	24	40	51	20	34	76	23	45	26	57	27	43	40	31	24	31	27	30	37	35	23	50	82	51	63	40	51	26
DIMENSIONS	WIDTH	(mm)	44	09	70	89	85	65	99	46	71	8	45	30	85	55	41	45	20	45	45	45	89	54	20	72	55	45	47	æ:
1	LENGTH	(mm)	95	65	95	100	100	95	06	82	85	126	82	87	111	150	80	74	92	61	70	106	80	82	8	82	104	93	62	53
	I.D. MARK		566	267	569	270	271	272	273	274	275	276	277	278	279	280	282	283	284	285	286	287	288	289	290	292	294	295	596	297

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

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SHAPE	FACTOR		0.5351	0.4807	0.4618	0.4425	0.3872	0.3626	0.4784	0.3588	0.4526	0.4622	0.3634	0.5029	0.3132	0.4457	0.5367	0.4687	0.3609	0.3581	0.3269	0.7105	0.4515	0.4273	0.4254	0.2935	0.5116	0.2840	0.2914	0.5878
OTHER	IDENTIFYING	MARKS	1 White Side		1 White Side	1 Flat Side	1 White Side	1 White Side	1 Flat Side	1 White Side	1 White Side	1 White Side	1 White Side	1 Flat Side	1 Flat Side	1 White Side	1 White Side	1 White Side												
	BEAD	;							>	>	>		>		>	Y/B				_ප	> -				>	>				>
COLOR	CONCRETE		γ	>	>	>	>	ĸ	>	>	>-	>	>-	>-	>-	>	>	>	>-	R/B	>-	>	×	æ	>	>	>	>	24	>
WEIGHT	(gm)		245.6	609.5	755.4	275.4	124.4	142.6	125.5	449.1	2372.3	299.5	1145.9	191.0	243.4	2036.6	281.5	220.5	152.8	231.8	403.6	298.8	124.4	156.2	274.9	450.4	386.6	127.2	125.9	651.4
i i	HEIGHT	(mm)	51	74	71	42	35	38	22	9/	80	99	73	40	51	80	47	43	35	20	70	99	35	56	89	72	09	33	50	55
DIMENSIONS	WIDTH	(mm)	20	89	80	65	45	26	46	47	130	50	06	46	20	85	20	47	63	62	70	45	40	40	99	74	64	65	40	73
	LENGTH	(mm)	75	105	120	95	85	77	108	146	210	06	200	98	127	280	93	97	80	87	105	59	82	89	09	120	82	87	06	115
	I.D. MARK		298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	325	326

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.2396	0.4808	0.4442	0.5513	0.4403	0.4307	0.5387	0.4472	0.3967	0.3748	0.4197	0.4859	0.4154	0.5740	0.2776	0.5273	0.3408	0.2370	0.3948	0.2963	0.4052	0.3539	0.3815	0.4495	0.3367	0.7000	0.3944	0.4637
OTHER	IDENTIFYING	MARKS	1 White Side	1 Flat Side		1 Flat Side											1 White Side			1 Flat Side		1 White Side	1 Flat Side			1 Flat Side	1 White Side	1 White Side/1 Fla		1 Flat Side
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COLOR	CONCRETE		Å	~	ĸ	ĸ	ĸ	В	ĸ	×	ĸ	æ	ĸ	ĸ	ĸ	œ	Y	æ	ĸ	æ	В	>	ĸ	£	æ	>	>	>	ĸ	R/B
WEIGHT	(mg)		207.0	264.8	181.6	306.2	741.9	158.2	220.9	1112.6	129.8	156.7	98.2	268.1	272.4	495.9	288.4	224.6	1354.5	154.6	702.6	183.8	205.0	691.4	297.6	194.2	214.3	5669.9	120.2	127.5
S	HEIGHT	(mm)	45	20	56	23	65	37	30	55	40	52	26	44	45	55	20	34	06	37	09	47	31	29	20	40	34	75	17	38
DIMENSIONS	WIDTH	(mm)	80	85	72	78	80	88	85	130	48	20	20	55	99	85	74	58	115	65	120	20	89	06	20	09	78	200	11	45
	LENGTH	(mm)	100	135	91	129	135	47	29	145	71	<i>L</i> 9	75	95	92	77	117	06	160	113	103	110	100	135	130	75	100	225	62	29
	I.D. MARK		328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR	0.4182	0.3431	0.3171	0.4204	0.3986	0.4308	0.3797	0.4049	0.2742	0.3781	0.3954	0.3845	0.4248	0.5045	0.3282	0.4579	0.4382	0.3901	0.4083	0.3998	0.5524	0.4354	0.3951	0.5330	0.3659	0.4335	0.3990	0.4013
OTHER	IDENTIFYING MARKS				1 White Side		1 Flat Side			2 Flat Sides	1 Flat Side	1 Flat Side	1 Flat Side									1 Flat Side		1 Flat Side			1 White Side		
R	BEAD					В														ĸ									
COLOR	CONCRETE	R/B	ß	*	Y	\	7	}	Z	Z	Z	Z	Z	>	Z	>	Z	Z	Z	>	Z	z	Z.	Z	z	z	>	Z	Z
WEIGHT	(mg)	190.7	148.2	267.1	162.1	231.5	183.1	178.6	169.5	230.1	174.5	132.7	141.2	135.8	329.0	584.8	428.6	205.1	217.9	375.6	234.9	120.9	239.8	165.4	166.3	197.6	136.0	256.2	153.7
S	HEIGHT (mm)	38	40	09	34	40	35	29	45	46	33	32	45	37	65	20	65	30	35	51	32	40	51	57	40	20	35	46	40
DIMENSIONS	WIDTH (mm)	50	50	65	45	55	55	45	57	80	62	46	20	09	38	06	08	65	95	45	85	40	20	36	65	09	83	70	57
	LENGTH (mm)	100	06	06	105	110	92	65	89	95	76	95	89	09	110	165	75	100	20	167	06	57	06	85	20	75	45	78	70
	I.D. MARK	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.2208	0.3090	0.4014	0.3154	0.4426	0.4292	0.4228	0.4745	0.6004	0.3908	0.6068	0.4896	0.6551	0.4160	0.6166	0.5114	0.3255	0.3772	0.4043	0.8533	0.2996	0.3828	0.3538	0.4543	0.4363	0.4921	0.3018	0.3284
OTHER	IDENTIFYING	MARKS	1 White Side		1 White Side	1 White Side							2 Flat Sides	1 White Side		1 Black Side	1 White Side		-	1 White Side	1 White Side									
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COLOR	CONCRETE		Υ	>	>	⊁	>	>	7	>	>	>	Z	>	Y	}	>	7	ĸ	>	>	Z	R/B	æ	ĸ	R/B	8	>	z	R
WEIGHT	(mg)		780.2	422.2	107.5	553.2	141.4	3942.7	186.7	1105.0	984.5	689.4	311.4	327.1	571.8	269.1	146.9	130.6	103.9	357.3	269.5	282.6	121.5	168.9	127.5	199.1	129.0	252.6	720.4	270.5
S	HEIGHT	(mm)	80	09	40	80	32	80	32	9/	61	75	30	09	58	20	44	38	30	69	31	20	34	43	25	47	35	57	65	44
DIMENSIONS	WIDTH	(mm)	115	65	45	63	64	165	20	9/	112	20	81	58	57	49	48	40	52	44	80	46	71	57	99	37	64	26	85	09
1	LENGTH	(mm)	160	146	62	145	65	290	115	168	100	140	88	80	110	110	47	70	82	130	112	09	70	75	91	105	55	<i>L</i> 9	180	130
	I.D. MARK		384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.4857	0.2911	0.4271	0.5866	0.4240	0.2749	0.4697	0.2560	0.3830	0.4389	0.4503	0.5396	0.4283	0.2988	0.4319	0.5945	0.3964	0.4054	0.4233	0.4134	0.5072	0.2802	0.3988	0.4929	0.3151	0.4386	0.4038	0.7234
OTHER	IDENTIFYING	MARKS	1 White Side	2 Flat Sides	1 White Side		1 White Side	2 White Sides	1 Flat Side			1 White Side		2 Flat Sides	1 White Side		1 White Side	1 White Side	1 White Side	1 White Side		1 White Side		1 White Side					1 White Side	
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COLOR	CONCRETE		œ	z	>	>	>	>	>	>	Ö	>	>	z	B/R	>	B/R	R/B	>	>	æ	Z	>-	>	>	>	>	>	>	\
WEIGHT	(mg)		111.9	224.5	232.5	319.1	198.8	69.2	604.9	254.0	145.1	160.2	273.9	324.1	394.1	139.4	139.1	241.0	112.8	83.7	134.4	44.5	109.9	96.3	59.7	41.4	43.2	52.0	56.7	44.3
S	I	(mm)	30	45	30	45	48	40	20	64	55	39	44	20	54	36	40	51	52	23	35	23	44	37	35	28	28	26	39	27
DIMENSIONS	WIDTH	(mm)	40	89	72	69	55	38	73	89	41	65	09	65	71	09	55	46	40	55	54	30	36	43	33	25	40	38	30	27
1	E	(mm)	08	105	105	73	74	69	147	95	20	09	96	11	100	06	61	72	57	89	20	65	57	06	54	20	51	20	20	35
	I.D. MARK		412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3021	0.5311	0.5124	0.3409	0.3698	0.4948	0.4269	0.5066	0.3598	0.4072	0.3219	0.4167	0.5134	0.5080	0.4514	0.2860	0.3872	0.5433	0.3566	0.3151	0.4159	0.3891	0.4673	0.6050	0.4944	0.4023	0.3130	0.4592
OTHER	IDENTIFYING	MARKS		1 Flat Side						1 Flat Side	1 White Side						1 Flat Side			1 White Side			-	1 White Side	1 White Side	1 White Side				1 White Side
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COLOR	CONCRETE		>	>	~	~	>	×	~	~	В	>	~	z	~	~	Z	~	2	24	~	~	~	В	8	~	>	z	æ	Z
WEIGHT	(gm)		29.0	215.1	48.7	32.4	35.5	69.5	65.8	52.0	58.6	137.2	60.5	9.68	62.1	49.5	99.5	46.7	44.6	66.5	75.1	78.2	92.7	99.3	104.3	102.4	212.9	185.4	9.68	180.9
4S	HEIGHT	(mm)	40	45	22	18	20	19	26	24	29	54	27	40	21	20	26	27	20	20	25	47	27	31	31	32	36	40	30	54
DIMENSIONS	WIDTH	(mm)	40	20	30	40	20	44	38	33	45	99	58	40	20	35	41	26	20	34	54	55	43	49	20	58	68	09	71	38
1	LENGTH	(mm)	25	75	09	55	40	20	65	54	52	40	20	26	48	58	40	45	48	75	65	40	80	70	09	38	26	80	26	80
	I.D. MARK		440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	468

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3867	0.4130	0.3913	0.3919	0.3895	0.7425	0.4436	0.3424	0.3172	0.5614	0.5138	0.3805	0.3592	0.3656	0.5942	0.4431	0.4279	0.4368	0.4008	0.5670	0.3700	0.2778	0.3049	0.4877	0.4926	0.4524	0.3755	0.2585
OTHER	IDENTIFYING	MARKS	1 White Side	1 Flat Side	1 Flat Side			1 White Side		1 Flat Side	1 Flat Side	· 1 Flat Side			1 Flat Side			1 White Side	1 Flat Side			1 Flat Side				1 Flat Side			1 Flat Side	1 Flat Side
R	BEAD				>			>																		ĸ				:
COLOR	CONCRETE		> -	~	٨	>	>	> -	R/B	z	z	z	z	Z	z	Z	z	>	Z	z	z	Z	z	z	>	ζZ	z	z	Z	Z
WEIGHT	(mg)		159.8	143.7	434.8	117.7	59.4	4490.6	116.9	70.4	143.2	86.1	131.7	100.1	0.96	109.8	117.9	155.2	108.0	162.6	139.5	113.9	103.9	0.06	207.7	143.7	115.0	134.9	167.1	197.3
S	HEIGHT	(mm)	52	39	48	35	31	80	61	18	38	30	43	53	32	34	39	58	27	09	37	30	45	45	09	33	40	35	40	53
DIMENSIONS	WIDTH	(mm)	43	63	91	55	41	140	40	26	99	30	46	54	40	80	40	37	41	47	70	45	40	40	55	40	64	20	45	09
1	LENGTH	(mm)	11	29	106	65	20	225	45	85	75	71	54	02	87	46	53	89	95	55	99	62	65	75	98	93	38	71	103	100
	I.D. MARK		469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.2867	0.3402	0.5789	0.4244	0.6277	0.3500	0.3695	0.4664	0.6997	0.3659	0.4132	0.3017	0.4700	0.4007	0.3874	0.5033	0.5070	0.4099	0.5457	0.5472	0.4250	0.4703	0.5062	0.4471	0.4982	0.4911	0.4973	0.3198
OTHER	IDENTIFYING	MARKS		1 Flat Side	1 Flat Side	1 White Side	1 Flat Side	1 Flat Side	1 Flat Side		1 Flat Side	1 Flat Side	1 Flat Side			1 Flat Side	1 Flat Side			1 Flat Side	1 Flat Side	1 Flat Side	1 Flat Side	<u> </u>		-			1 Flat Side	1 Flat Side
R	BEAD																													
COLOR	CONCRETE		Z	Z	z	>	Z	Z	Z	Z	z	>	Z	>	z	Z	Z	Z	z	Z	z	z	Z	z	z	z	Z	z	Z	Z
WEIGHT	(mg)		125.5	128.6	116.7	161.7	140.1	251.7	151.1	367.5	338.6	90.1	128.8	392.8	139.6	70.1	139.1	231.0	122.8	127.1	150.5	81.1	230.5	137.7	826.6	200.7	695.1	275.8	160.4	198.6
S	HEIGHT	(mm)	38	45	30	42	31	39	40	59	47	19	37	70	30	27	35	51	32	38	36	25	44	25	54	20	09	52	40	09
DIMENSIONS	WIDTH	(mm)	09	20	40	54	20	89	09	53	65	09	39	62	75	45	45	20	38	20	99	38	48	61	100	43	82	09	09	56
1	Ŧ	(mm)	80	20	70	20	09	113	11	105	99	8	8	125	52	09	95	75	83	89	57	65	107	80	126	87	114	75	2 6	77
	I.D. MARK		497	498	499	200	501	505	503	504	505	206	507	208	209	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3771	0.3211	0.3979	0.4237	0.3512	0.3273	0.9820	0.3187	0.3425	0.5379	0.5103	0.2795	0.4883	0.5694	0.3968	0.3128	0.3730	0.5686	0.4417	0.5723	0.2652	0.2555	0.3403	0.4785	0.4014	0.3363	0.2965	0.3168
OTHER	IDENTIFYING	MARKS	1 Flat Side			1 Flat Side	1 Flat Side		1 Flat Side	1 Flat Side	1 Flat White Side	1 White Side	1 Flat Side	1 Flat White Side	1 Flat Side	1 Flat Side			1 Flat Side	1 Flat Side		1 Flat Side		1 Flat Side			1 Flat Side			
R	BEAD											>		x																
COLOR	CONCRETE		z	z	٨	Z	z	z	z	z	>-	>	z	ζZ	z	Z	z	Z	z	z	z	z	z	z	z	>-	z	z	z	Z;
WEIGHT	(mg)		370.6	317.5	356.8	181.2	181.6	173.6	178.3	413.4	127.0	3020.9	154.3	298.8	224.3	143.5	112.0	111.0	339.3	307.7	534.3	319.4	215.5	293.4	127.4	126.6	106.2	101.0	117.4	78.0
4S	II	(mm)	45	20	55	32	45	34	25	52	20	80	30	06	55	35	28	42	35	20	92	34	43	52	40	40	35	25	55	20
DIMENSIONS	WIDTH	(mm)	91	80	79	48	57	65	34	77	30	130	42	45	40	40	26	55	95	55	80	09	75	80	09	53	20	55	9	57
1 1	ĽΉ	(mm)	100	103	98	116	84	100	68	135	103	225	100	110	87	75	75	64	114	82	06	114	105	115	65	52	63	91	20	 06
	I.D. MARK		525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.4300	0.2793	0.3996	0.5495	0.3790	0.2689	0.2938	0.5243	0.2809	0.4505	0.2814	0.5627	0.3261	0.2548	0.4232	0.5364	0.3355	0.4442	0.4032	0.3411	0.4034	0.4023	0.4176	0.4101	0.5359	0.3569	0.4573	0.6177
OTHER	IDENTIFYING	MARKS		1 Flat Side		1 Flat Side						1 Flat Side		1 White Side	1 White Side		1 Flat Side	1 Flat Side		1 Flat Side			1 Flat Side			1 Flat Side	1 Flat Side	1 Flat Side		1 Flat Side
8	BEAD				•							-								- -			_	R	-				_	
COLOR	CONCRETE		z	Z	Z	Z	Z	Y	Z	>	>	Z	Z	>	*	z	>	z	z	Z	z	z	Z	>	Z	z	z	z	Z	Z
WEIGHT	(mg)		184.2	158.8	79.8	142.9	171.9	316.3	62.7	517.1	72.2	324.2	161.3	798.1	619.0	153.4	154.5	117.4	137.4	230.9	185.8	131.7	113.7	123.1	793.8	226.0	99.1	275.8	321.2	1723.2
St	II	(mm)	30	40	40	43	09	65	21	58	30	49	35	29	57	49	30	38	35	38	40	45	27	34	80	43	23	20	62	82
DIMENSIONS	WIDTH	(mm)	70	63	32	40	45	65	55	65	47	09	65	86	75	64	65	40	65	57	09	55	20	20	06	09	20	70	59	105
1 .	Ξ	(mm)	82	94	65	63	70	116	77	109	92	102	105	06	185	80		09	75	100	80	. 59	87	75	110	68	29	92	80	135
	I.D. MARK		553	554	555	556	557	558	559	260	561	295	563	564	595	999	292	268	569	570	571	572	573	574	575	276	577	578	579	580

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

SHAPE	FACTOR		0.3316	0.6822	0.3022	0.3743	0.4503	0.7254	0.8238	0.2833	0.4745	0.4273	0.3832	0.4413	0.3394	0.6574	0.4865	0.5393	0.4432	0.3851	0.4186	0.2520	0.4548	0.4773	0.5495	0.3633	0.3653	0.3701	0.5547	0.3446
OTHER	IDENTIFYING	MARKS		1 White Side		1 Flat Side		1 White Side	1 Flat Side	1 Flat Side	1 White Side	1 White Side	2 Flat Sides			1 Flat Side		1 Flat Side		1 Flat Side						1 Flat Side				
R	BEAD			æ	2			2	×							ĸ													>	
COLOR	CONCRETE		z	>	>	z	Z	>	>	>-	>-	>	z	Z	>	~	Z	Z	\	Z	Z	Z	Z	z	Z	>	Z	z	>	Z
WEIGHT	(mg)		229.2	4525.7	215.0	1188.5	693.0	1124.2	467.1	388.2	209.1	6137.4	404.7	650.0	376.1	5311.1	9.007	265.0	121.0	168.7	4408.9	52.3	518.5	103.1	66.4	78.9	88.0	106.6	202.5	139.6
S	HEIGHT	(mm)	40	105	39	70	75	82	50	43	40	105	50	87	59	85	75	50	35	45	95	24	20	25	19	30	25	40	35	31
DIMENSIONS	WIDTH	(mm)	75	135	80	140	06	63	45	80	45	200	80	83	43	180	80	65	20	25	140	40	100	45	20	58	55	20	53	45
	TH	(mm)	96	195	95	135	95	125	105	166	102	285	110	82	182	220	100	63	65	78	330	06	95	08	53	52	73	09	82	121
	I.D. MARK		581	582	583	584	585	286	587	288	289	230	591	592	593	594	595	969	597	298	299	009	601	602	603	604	605	909	610	611

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

		_																											
SHAPE	FACTOR	0.3741	0.3890	0.6404	0.3189	0.3640	0.3411	0.3988	0.5008	0.3113	0.3525	0.5659	0.5278	0.5875	0.4440	0.5129	0.4166	0.3337	0.4656	0.3956	0.2467	0.4966	0.3424	0.4689	0.5132	0.4737	0.4390	0.3642	0.5696
OTHER	IDENTIFYING MARKS				1 Flat Side			1 Wl, ite Side	1 Flat Side				2 Flat Sides						1 White Side	1 White Side	1 White Side		1 Flat Side	1 Flat Side	1 White Side				1 Flat Side
R	BEAD			_				ĸ									2				ĸ				2				
COLOR	CONCRETE	Z	>	Z	Z	>	Z	\	z	z	z	Z	N/B	N/B	Z	Z	B/R	\	>	>	> -	Z	Z	>	> -	Z	z	z	Z
WEIGHT	(mg)	120.7	119.1	103.1	81.0	9.66	113.9	165.0	71.9	9.07	113.7	868	74.1	73.6	340.6	101.5	193.3	190.1	414.0	0.69	145.5	319.9	326.2	129.9	144.1	190.3	97.2	1153.7	451.1
٨S	HEIGHT (mm)	30	45	26	42	40	37	34	26	27	35	29	30	29	47	38	37	43	57	26	36	61	54	39	36	09	41	99	55
DIMENSIONS	WIDTH (mm)	54	45	43	42	57	47	78	39	20	64	40	39	40	80	35	55	48	20	43	65	55	105	40	20	45	45	125	09
3 I	LENGTH (mm)	83	63	09	09	50	80	65	59	70	09	57	20	45	85	62	95	115	130	65	105	80	70	74	65	62	20	160	100
	I.D. MARK	612	613	614	615	616	617	618	619	620	621	622	623	624	625	979	627	628	629	630	631	632	633	634	635	636	637	638	639

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY IDENTIFICATION

		DIMENSIONS	S	WEIGHT	ОТОЭ	8	OTHER	L
I.D. MARK	LENGTH	WIDTH	HEIGHT	(mg)	CONCRETE BEAD	BEAD	IDENTIFYING	FACTOR
	(mm)	(mm)	(mm)				MARKS	
640	72	55	26	88.8	Z			
641	55	20	30	76.8	Z.			0.3879
642	75	89	15	6.68	>		1 White Side	0.4897
643	75	45	40	171.5	œ		1 White Side	0.5293
644	49	26	31	50.4	æ			0.5317
645	95	20	45	281.1	ĸ		1 White Side	0.3914
646	73	33	40	139.4	>		1 White Side	0.6028

2.4 SORTED BY WEIGHT

The weight and location information of each piece of PAS-3 debris collected in the circular collection area was first combined into a single database. The database was then sorted by weight from lightest to heaviest.

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI		FROM	1 GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm) _	(mm)	(mm)	(deg)
440	29.0	-3232	15668	18614	57.32
443	32.4	-2677	9694	13569	45.59
444	35.5	-2231	9104	12836	45.18
435	41.4	- 1394	16189	18152	63.10
436	43.2	-278	17324	18721	67.73
439	44.3	-1379	19204	20881	66.88
431	44.5	-38939	20350	50078	23.98
456	44.6	-11752	2460	18732	7.55
214	45.2	-25445	- 765	32272	358.64
455	46.7	-10620	1704	17540	5.57
442	48.7	-2353	11485	14698	51.39
453	49.5	−7749	2340	14754	9.13
644	50.4	-133352	36057	144734	14.43
16	51.0	49616	- 129429	136321	251.70
437	52.0	130	18429	19605_	70.05
447	52.0	-6771	5442	14639	21.83
600	52.3	160228	535	153411	179.80
241	55.5	-15559	- 12510	25637	330.79
438	56.7	1393	18406	19189	73.58
224	57.5	-22956	-1912	29836	356.33
245	58.6	-15743	- 10550	24906	334.94
448	58.6	-7414	2571	14462	10.24
473	59.4	1127	11095	12469	62.85
434	59.7	-3187	20337	22665	63.80
202	60.5	- 16498	-22414	32342	316.13
450	60.5	-6357	3153	13547	13.46
225	61.0	-21378	-3446	28406	353.03
452	62.1	-7145	3327	14354	13.40
559	62.7	43564	-4817	37060	187.47
216	62.8	-26538	5936	33881	10.09
189	63.9	-54532	-35415	70838	330.00
212	64.2	-22492	-5192	29766	349.95
206	64.6	-21040	-13468	30943	334.20
284	65.0	-7074	-2897	14191	348.22
446	65.8	-6573	5762	14578	23.28
603	66.4	138672	-18348	133124	187.92
221	66.5	-20458	351	27278	0.74
457	66.5	-10263	-376	17085	358.74
3	67.3	-111077	82334	143799	34.93
630	69.0	76582	-56624	89851	219.06
417	69.2	-66760	6017	73823	4.67

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDII	NATES	FROM	
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
445	69.5	-3998	5691	12222	27.75
510	70.1	36087	11211	31342	159.04
25	70.3	18288	5428	12690	154.67
476	70.4	16712	8257	12887	140.15
620	70.6	29945	7391	24279	162.28
246	71.8	-12715	-13150	23547	326.05
619	71.9	29286	5500	23131	166.25
561	72.2	44152	-3040	37458	184.66
297	73.1	-6543	-19882	23955	303.90
624	73.6	149046	50534	150938	160.44
623	74.1	148165	49925	149905	160.55
288	74.4	- 5996	-2740	13104	347.93
458	75.1	-10413	-403	17236	358.66
233	75.5	-8679	-24191	28729	302.64
641	76.8	7 <u>801</u> 9	5752	71433	175.38
213	77.8	-25714	-2797	32652	355.09
552	78.0	32229	1875	25481	175.78
459	78.2	-9490	-763	16326	357.32
4	78.6	-98801	80882	133031	37.44
604	78.9	119183	-25756	1152.	192.91
24	79.2	18804	4938	12964	157.61
555	79.8	25701	3485	19202	169.54
285	80.7	-6836	-2730	13925	348.69
9	80.8	-73463	-20014	82739	346.00
615	81.0	33052	451	26238	179.01
516	81.1	44468	-69	37650	180.10
185	81.5	-45790	-18066	55624	341.05
211	82.6	-21386	-8285	29395	343.63
252	83.1	-14786	1600	21663	4.23
429	83.7	-67991	11561	75697	8.78
197	84.0	-27739	-5845	35048	350.40
478	86.1	21065	827	14271	176.68
265	86.9	-4785	5229	12727	24.26
264	87.5	-8329	3643	15579	13.53
260	88.0	-11401	- 59	18219	359.82
605	88.0	115988	-26062	112238	193.43
181	88.6	-42267	20	49085	0.02
640	88.8	98124	-20639	93609	192.74
261	88.9	- 10706	2731	17735	8.86
451	89.6	-7022	3501	14276	14.19
466	89.6	-3135	-3415	10522	341.06

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI		FRON	1GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
622	89.8	112002	7404	105444	175.97
642	89.9	- 78326	32074	90985	20.64
490	90.0	30931	-3510	24367	188.28
506	90.1	37159	9030	31657	163.43
217	90.3	-26031	10858	34597	18.29
282	91.6	-9275	-4532	16719	344.27
199	92.4	-37671	-8990	45388	348.58
460	92.7	-6393	-934	13244	355.96
259	93.2	-11777	-821	18613	357.47
481	96.0	24215	404	17401	178.67
17	96.1	51817	-98572	108358	245.46
433	96.3	-2390	20698	22654	66.02
637	97.2	113372	-9088	106941	184.87
201	97.9	-35025	- 16597	45014	338.36
338	98.2	6388	-9052	9062	272.72
170	98.6	-3994	21275	23865	63.06
244	98.8	-14846	-7825	23034	340.14
219	99.1	-23713	16694	34797	28.67
577	99.1	66292	-4249	59625	184.09
461	99.3	-6669	-1116	13533	355.27
454	99.5	-10041	1607	16935	5.45
616	99.6	31283	-291	24467	180.68
243	99.7	-16735	−7581	24743	342.16
480	100.1	22899	1670	16167	174.07
550	101.0	33625	2186	26896	175.34
626	101.5	175527	6283	168826	177.87
236	101.8	-9613	-18471	24722	311.66
23	102.4	18484	4386	12464	159.39
463	102.4	-4613	-2311	11662	348.57
234	102.8	-8508	-21452	26364	305.54
602	103.1	145780	-14788	139746	186.07
614	103.1	34369	859	27564	178.21
400	103.9	-4139	1654	11081	8.58
489	103.9	31306	-6294	25284	194.41
462	104.3	-5545	-532	12375	357.54
220	104.9	-21390	1257	28236	2.55
296	105.3	-6122	-15745	20380	309.41
235	105.5	-6663	-25237	28612	298.11
283	105.6	-8606	-4332	16021	344.31
226	106.0	-19014	- 5989	26517	346.95
549	106.2	34663	2241	27935	175.40

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

	· · · · · · · · · · · · · · · · · · ·	COORDI		FRON	1 GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
606	106.6	112234	-28782	109275	195.27
175	107.3	-20478	3441	27512	7.18
278	107.4	-8545	-5783	16415	339.37
386	107.5	207	24579	25452	74.95
196	108.0	-28502	-10187	36760	343.91
485	108.0	24346	5897	18494	161.40
193	108.6	-24719	- 18571	36599	329.51
32	108.8	18154	6947	13295	148.50
218	108.8	- 32427	9761	40440	13.97
209	109.6	- 19311	-9005	27637	340.98
482	109.8	23594	984	16805	176.64
432	109.9	-2827	17753	20204	61.49
33	110.5	18815	2961	12357	166.13
262	110.7	-10559	2467	17551	8.08
540	111.0	53061	-4802	46492	185.93
412	111.9	-6957	-7798	15829	330.48
539	112.0	53800	2112	47030	177.43
207	112.5	-21810	-8596	29891	343.29
428	112.8	- 52538	35008	68911	30.53
573	113.7	61174	-2741	54425	182.89
621	113.7	37639	1095	30841	177.97
488	113.9	32449	-6821	26523	194.90
617	113.9	27520	236	20703	179.35
493	115.0	34385	-1347	27600	182.80
215	115.2	-24301	2646	31231	4.86
499	116.7	37950	2074	31201	176.19
176	116.8	-21168	773	27997	1.58
475	116.9	14438	75 34	10716	135.32
551	117.4	33104	1958	26359	175.74
568	117.4	48702	1525	41912	177.91
472	117.7	- 1976	7001	11241	38.52
483	117.9	24303	-302	17488	180.99
266	118.2	-5726	4218	13235	18.59
174	118.5	-19923	5097	27223	10.79
205	118.7	- 18495	-14902	29373	329.51
277	118.8	-10682	-7300	18962	337.36
15	119.0	-184455	-61291	200853	342.23
613	119.1	33289	- 1375	26506	182.97
354	120.2	6280	-26483	26488	271.16
612	120.7	29007	10028	24350	155.68
256	120.8	-13017	1434	19886	4.14

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDII		FROM	AGZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
376	120.9	33222	1046	26425	177.73
597	121.0	121940	- 1483	115131	180.74
404	121.5	-6979	-845	13823	356.49
513	122.8	44036	3269	37361	174.98
574	123.1	61169	- 1239	54365	181.31
230	124.4	- 16144	-15778	27860	325.51
302	124.4	-457	-22852	23982	287.66
318	124.4	1548	-24867	25419	281.97
223	124.7	-22666	- 1967	29550	356.18
179	125.5	-41082	-6563	48347	352.20
304	125.5	-24	-23399	24379	286.30
497	125.5	35398	4341	28908	171.36
325	125.9	4315	-21375	21521	276.68
548	126.6	37243	1352	30455	177.45
533	127.0	46776	5861	40385	171.66
514	127.1	44266	1812	37491	177.23
323	127.2	3247	-23377	23649	278.68
547	127.4	60540	-9411	54540	189.94
355	127.5	6178	-26764	26772	271.37
406	127.5	-9587	-1765	16500	353.86
263	128.0	-10319	2571	17329	8.53
498	128.6	36242	2177	29505	175.77
507	128.8	38497	9321	33022	163.60
408	129.0	-10266	-3641	17467	347.97
336	129.8	3808	-9586	10047	287.43
634	129.9	77741	-16092	72725	192.78
257	130.0	-14165	-251	20984	359.31
399	130.6	-6441	1381	13331	5.94
171	130.7	-15734	30242	37725	53.29
479	131.7	21353	56	14535	179.78
572	131.7	55112	-8799	49089	190.33
182	131.8	-41535	-10056	49388	348.25
152	131.9	-26952	221	33771	0.38
295	131.9	-7026	-7260	15632	332.33
366	132.7	25718	-3222	19172	189.67
151	133.7	-30656	-2458	37554	356.25
430	134.4	-33001	26378	47763	33.52
494	134.9	34991	595	28179	178.79
198	135.8	-32708	-8133	40354	348.37
368	135.8	23329	-3258	16830	191.16
381	136.0	25003	2873	18410	171.02

PAS-3
CONCRETE DEBR!S COLLECTION SURVEY
SORTED BY WEIGHT

		COORDI	NATES	FRON	AGZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(<u>m</u> m)	(deg)
449	137.2	-5607	3288	12853	14.82
569	137.4	49361	-5142	42853	186.89
518	137.7	45448	-4727	38918	186.98
258	137.9	- 14500	- 1448	21367	356.11
426	139.1	- 79254	46143	97660	28.20
511	139.1	42087	2376	35349	176.15
250	139.4	- 15146	-230	21965	359.40
425	139.4	-95569	47411	112831	24.85
646	139.4	-157246	38657	168557	13.26
487	139.5	31606	-4897	25267	191.18
509	139.6	43781	8253	37873	167.41
611	139.6	31318	5805	25178	166.67
501	140.1	38239	1397	31452	177.45
22	140.3	17717	4647	11848	156.91
367	141.2	24725	-2864	18134	189.09
210	141.4	-20336	-8478	28447	342.66
388	141.4	-2694	22744	24653	67.30
12	141.9	-132974	-106186	175549	322.78
303	142.6	118	-22978	23934	286.26
253	142.7	-15230	3801	22373	9.78
556	142.9	31495	-1017	24698	182.36
477	143.2	20686	801	13892	176.69
538	143.5	53763	4266	47138	174.81
470	143.7	-4066	-380	10891	358.00
492	143.7	34402	- 1505	27625	183.12
635	144.1	80409	~16088	75329	192.33
420	145.1	-61871	-14311	70164	348.23
631	145.5	60159	~45067	69831	220.19
398	146.9	-6559	1523	13463	6.50
272	147.9	-7115	- 17891	22676	307.91
357	148.2	12958	-11858	13354	242.63
515	150.5	44712	-629	37899	180.95
112	150.7	37597	~36695	47894	230.01
503	151.1	40778	3558	34146	174.02
314	152.8	2594	~25151	25503	279.53
187	153.1	-58292	~26688	70367	337.71
566	153.4	47470	4159	40864	174.16
383	153.7	22126	1515	15383	174.35
535	154.3	53425	6756	47095	171.75
567	154.5	48585	2184	41824	177.01
345	154.6	7405	-11425	11440	267.06

PAS-3
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY WEIGHT

		COORDII	NATES	FROM	1 GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gni)	(mm)	(mm)	(mm)	(deg)
484	155.2	27565	-2902	20949	187.96
165	155.5	- 5489	5772	13594	25.13
319	156.2	3099	-26004	26269	278.14
337	156.7	5875	-9656	9702	275.58
333	158.2	5045	-12703	12827	277.94
554	158.8	26874	1051	20083	177.00
286	159.4	-6148	-3052	13320	346.76
469	159.8	-3118	-2007	10137	348.58
421	160.2	-56027	15545	64739	13.89
523	160.4	40253	355	33437	179.39
563	161.3	43074	2553	36346	175.97
500	161.7	38898	1906	32137	176.60
359	162.1	10170	-9732	10293	250.99
486	162.6	28335	-4411	21965	191.58
222	162.7	-22841	-519	29663	359.00
274	163.0	-7049	-11689	18136	319.87
26	163.1	21273	4275	15074	163.53
249	163.4	- 14505	- 1491	21375	356.00
13	164.9	- 140974	-120698	190815	320.76
618	165.0	27923	3601	21410	170.32
378	165.4	24848	306	18033	179.03
379	166.3	23019	1508	16271	174.68
495	167.1	36740	1952	29985	176.27
598	168.7	144747	5683	138046	177.64
405	168.9	-9091	-2206	16062	352.10
363	169.5	19828	-15723	20408	230.39
150	169.7	-32562	-2606	39467	356.21
643	171.5	-112803	31480	123694	14.74
228	171.8	- 16594	-11215	25959	334.40
557	171.9	31877	-1220	25088	182.79
115	172.7	46041	-45954	60417	229.52
14	173.3	-187268	-60409	203270	342.71
530	173.6	51655	4862	45100	173.81
204	173.8	- 19520	- 15528	30575	329.48
365	174.5	20566	-2104	13908	188.70
67	174.6	34932	-5732	28692	191.52
99	175.3	26982	1294	20206	176.33
240	176.4	-14440	-16316	26797	322.49
113	176.7	39135	-38927	50593	230.30
287	178.1	- 5799	-2675	12897	348.03
531	178.3	52207	5443	45714	173.16

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI	NATES	FROM	1 GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
İ	(gm)	(mm)	(mm)	(mm)	(deg)
362	178.6	14124	-12992	14905	240.65
238	179.2	-13384	-17268	26577	319.48
155	180.6	- 18114	1103	24956	2.53
468	180.9	-3407	-2861	10618	344.37
275	181.0	-8036	-10752	18337	324.10
10	181.1	-113970	-38244	126697	342.43
528	181.2	55043	1346	48244	178.40
330	181.6	2994	-13173	13717	286.19
529	181.6	54944	1391	48146	178.34
102	182.3	22210	-3707	15832	193.54
280	182.3	-7374	-5525	15230	338.73
361	183.1	15224	-12043	14686	235.09
347	183.8	6144	- 10634	10655	273.63
553	184.2	30282	1748	23529	175.74
273	184.5	-7485	-11611	18423	320.93
465	185.4	-3290	-3794	10797	339.43
571	185.8	51104	-7596	44933	189.73
390	186.7	-153	23357	24376	73.38
200	188.4	-38160	- 15487	47570	341.00
248	188.4	-13822	-4198	21062	348.50
78	189.6	50479	-20494	48232	205.15
628	190.1	96446	-72362	115194	218.92
636	190.3	91919	-5827	85300	183.92
356	190.7	6029	-24496	24508	271.85
271	190.8	-7559	– 18547	23467	307.78
309	191.0	-1290	-30302	31368	284.98
183	191.8	-45952	-13318	54424	345.84
6	192.2	- 126575	29731	136666	12.57
104	192.7	28117	-7253	22500	198.80
627	193.3	123347	-61335	131685	207.76
351	194.2	9161	- 12689	12903	259.54
5	195.9	-128325	44547	142296	18.24
251	196.4	-15127	1316	21984	3.43
496	197.3	35104	4027	28572	171.90
380	197.6	23442	2625	16830	171.03
184	197.9	-45805	-18053	55634	341.07
194	198.2	-23489	-18142	35322	329.10
524	198.6	41269	1764	34496	177.07
416	198.8	-18619	4160	25775	9.29
407	199.1	-10490	-4024	17770	346.91
19	199.7	57974	-70039	86731	233.86

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI		FROM GZ:		
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH	
	(gm)	(mm)	(mm)	(mm)	(deg)	
98	200.1	33024	3871	26490	171.60	
520	200.7	38782	- 1419	31995	182.54	
242	202.3	- 17433	- 5251	24813	347.78	
610	202.5	26780	23478	30817	130.37	
348	205.0	8459	-10805	10928	261.37	
372	205.1	34427	799	27621	178.34	
11	206.0	-136402	-94728	171713	326.52	
328	207.0	4334	-21714	21856	276.53	
491	207.7	35460	-5348	29137	190.58	
31	208.4	18773	2721	12261	167.18	
589	209.1	89979	12699	84125	171.32	
164	211.4	-6341	6075	14494	24.78	
267	212.7	-4403	5949	12701	27.93	
464	212.9	-4386	-4543	12090	337.93	
352	214.3	8789	-12745	12897	261.21	
583	215.0	62652	14555	57700	165.39	
441	215.1	-2676	13428	16445	54.74	
545	215.5	58820	-10171	52987	191.07	
120	216.9	85515	-52611	94663	213.76	
126	217.2	10660	-22178	22508	260.17	
373	217.9	31830	2682	25156	173.88	
2	219.6	- 123266	100058	164114	37.57	
254	219.7	- 15377	3698	22501	9.46	
313	220.5	3764	-36494	36621	274.78	
334	220.9	4627	-12216	12411	280.17	
537	224.3	53210	4206	46582	174.82	
413	224.5	-5380	-7642	14394	327.93	
343	224.6	7004	-11092	11093	269.04	
208	225.0	- 19408	-11729	28729	335.90	
69	225.6	39317	-6152	33077	190.72	
576	226.0	66516	-7224	60134	186.90	
581	229.2	62924	2690	56170	177.25	
364	230.1	20028	-4262	13880	197.88	
517	230.5	46524	-1893	39751	182.73	
570	230.9	50405	-8390	44387	190.89	
512	231.0	43363	3281	36692	174.87	
116	231.1	52530	-46784	65409	225.66	
255	231.1	-13982	5347	21476	14.42	
360	231.5	14025	-8441	11099	227.51	
315	231.8	384	-26906	27664	283.45	
41	232.5	-2832	- 5986	11356	328.19	

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI	NATES	FROM	AGZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
375	234.9	33504	1129	26710	177.58
377	239.8	25085	955	18291	177.01
427	241.0	-76245	52535	98283	32.31
80	243.1	37509	- 12423	33110	202.04
310	243.4	-1328	- 34094	35054	283.44
298	245.6	-3041	-20873	23084	295.28
21	251.5	18188	4510	12231	158.36
88	251.6	23658	-2983	17102	190.04
502	251.7	41152	3567	34519	174.07
409	252.6	-11450	-3495	18599	349.17
419	254.0	-84781	10143	92159	6.32
70	255.6	39808	-6469	33619	191.09
382	256.2	27110	3746	20635	169.54
65	260.2	33733	-400	26918	180.85
186	261.5	-41156	-18901	51563	338.50
227	264.7	- 17720	- 7442	25642	343.13
329	264.8	2884	-13430	13994	286.32
596	265.0	123853	- 9790	117444	184.78
358	267.1	10027	-9685	10203	251.67
339	268.1	6578	-8351	8355	271.64
397	269.1	9086	54596	54643	92.38
402	269.5	-2801	810	9653	4.81
411	270.5	-6884	-7517	15629	331.25
73	272.1	50558	-6152	44171	188.01
340	272.4	6257	-7813	7833	274.11
422	273.9	-73531	20466	82915	14.29
192	274.2	-28210	-31255	46945	318.26
320	274.9	2882	-23092	23425	279.67
301	275.4	- 584	-23071	24230	287.79
522	275.8	39059	-1825	32293	183.24
578	275.8	70423	- 1443	63621	181.30
231	278.5	-12802	- 19787	27866	314.76
645	281.1	-147539	35648	158420	13.00
312	281.5	3081	-32908	33119	276.48
403	282.6	-4991	-713	11830	356.54
30	283.4	21023	2684	14456	169.30
289	287.0	-5310	-5361	13260	336.15
342	288.4	7346	-11454	11466	267.36
203	289.3	- 17095	- 19729	31001	320.48
169	290.4	- 5894	23152	26413	61.23
105	290.7	37411	-4287	30892	187.98

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI		FROM	1 GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
546	293.4	58775	-10065	52923	190.96
350	297.6	9415	-10718	11028	256.38
136	297.7	- 16077	-4839	23401	348.07
190	297.9	- 53241	-40112	72222	326.26
317	298.8	1584	-23235	23817	282.69
536	298.8	56670	9495	50748	169.22
307	299.5	-2786	-26880	28544	289.66
146	306.2	-27633	-7336	35224	347.98
331	306.2	3341	-13343	13789	284.61
542	307.7	62675	-7754	56393	187.90
394	311.4	5783	14852	14888	86.01
82	314.2	31738	-7909	26145	197.61
29	315.1	21202	3423	14785	166.61
558	316.3	42884	-5569	36493	188.78
526	317.5	52701	-3536	46019	184.41
415	319.1	-3166	- 5244	11277	332.29
110	319.2	37838	-16625	35194	208.19
544	319.4	58988	-10113	53141	190.97
632	319.9	55661	-25656	55171	207.71
579	321.2	71524	-683	64710	180.60
172	322.6	- 18927	13604	29118	27.85
145	323.4	-28632	-874	35460	358.59
423	324.1	-70847	15724	79241	11.45
562	324.2	44469	-3109	37779	184.72
633	326.2	64662	-12076	59092	191.79
395	327.1	-268	29852	30681	76.65
369	329.0	27337	-3878	20882	190.70
505	338.6	38632	6623	32496	168.24
541	339.3	59860	-307	53043	180.33
177	340.0	-40767	-4831	47830	354.20
625	340.6	162663	47263	162854	163.13
107	353.3	40156	-4451	33634	187.61
97	353.9	35171	2334	28449	175.29
131	354.0	-10098	-12430	20992	323.69
109	355.6	46725	-1416	39932	182.03
527	356.8	54098	- 1645	-,7309	181.99
401	357.3	-3387	1384	10298	7.72
290	360.1	-5312	-6072	13565	333.41
173	365.7	- 18849	8149	26930	17.61
504	363.7 367.5	41665	4800	35176	172.16
525	370.6	51419	- 1987	44645	182.55

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI		FROM	AGZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm) _	(mm)	(mm)	(deg)
153	373.7	-22215	134	29034	0.26
374	375.6	29241	1908	22504	175.14
593	376.1	104289	483	97473	179.72
294	383.0	-6904	-7562	15667	331.14
269	386.2	-4169	1630	11107	8.44
322	386.6	3594	-22303	22535	278.22
588	388.2	86462	13556	80789	170.34
71	388.6	42498	-6081	36195	189.67
54	388.7	34740	-150	27923	180.31
7	390.4	- 105051	6666	112068	3.41
18	391.2	38150	-84270	89906	249.60
508	392.8	40052	12889	35646	158.80
68	392.9	38334	-7604	32420	193.56
424	394.1	-86938	47729	105206	26.98
237	403.1	- 12662	- 17454	26156	318.14
316	403.6	1224	-23392	24052	283.45
591	404.7	92780	-6204	86185	184.13
532	413.4	53055	5328	46543	173.43
629	414.0	82501	-65424	100041	220.84
101	416.2	20980	-3639	14622	194.41
232	416.9	-12358	-23722	30503	308.95
385	422.2	1771	25016	25520	78.59
162	426.7	-6091	2214	13098	9.73
371	428.6	34901	1733	28136	176.47
159	429.9	-7512	-1128	14374	355.50
142	430.4	-24421	-482	31242	359.12
279	430.5	-7908	-6432	16070	336.40
154	432.8	- 18423	358	25244	0.81
48	433.5	26596	-6152	20713	197.28
471	434.8	-2945	4914	10930	26.72
292	435.0	-5377	-7678	14411	327.81
87	439.8	24033	-6219	18587	199.55
161	441.0	-3793	-1316	10693	352.93
305	449.1	-302	-23285	24349	287.00
321	450.4	2833	-22765	23111	279.93
639	451.1	111426	-13341	105455	187.27
58	461.5	34896	2965	28234	173.97
587	467.1	85444	14027	79868	169.88
100	482.3	24886	-706	18082	182.24
341	495.9	8373	-10072	10191	261.22
114	497.8	46877	-40053	56648	225.00

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI	NATES	FROM	1 GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
247	498.5	-10483	-3366	17625	348.99
270	498.6	-3037	-375	9862	357.82
124	502.6	5588	-32056	32079	272.20
166	510.2	-5366	9439	15413	37.77
134	514.9	-10061	-4047	17357	346.52
560	517.1	43836	-3598	37192	185.55
127	518.4	-1542	- 18693	20477	294.10
601	518.5	159725	3019	152973	178.87
81	523.7	31988	-11069	27496	203.74
28	527.4	27827	13017	24715	148.22
42	527.7	59895	3403	53186	176.33
195	529.5	-30158	-18122	41178	333.89
133	533.6	-9310	-3043	16412	349.31
543	534.3	46637	6380	40327	170.90
55	550.1	32144	3929	25629	171.18
387	553.2	-2242	25447	27012	70.40
396	571.8	10549	49472	49612	94.31
66	580.1	33619	-4264	27138	189.04
370	584.8	28470	-3756	21976	189.84
276	595.2	-9348	-7762	17933	334.35
75	603.1	45674	-14000	41301	199.81
418	604.9	-73703	1722	80540	1.23
299	609.5	-1713	-21825	23433	291.35
565	619.0	48359	5719	41933	172.16
119	619.8	79924	-51045	89163	214.92
91	637.8	20748	-2272	14114	189.26
592	650.0	102595	-4782	95896	182.86
326	651.4	4072	-20936	21115	277.47
144	653.1	-27063	150	33881	0.25
141	654.7	-23923	707	30749	1.32
72	660.8	45098	-8286	39167	192.21
147	661.2	-32728	-10430	40898	345.23
92	666.0	21549	-1591	14817	186.16
178	666.1	-44426	-6050	51600	353.27
64	671.2	40109	3866	33515	173.38
111	677.6	32628	-17952	31440	214.82
156	681.1	-18322	3830	25430	8.66
79	685.6	41979	-13636	37713	201.20
125	689.0	6830	-25111	25111	269.97
393	689.4	5941	16609	16632	86.98
349	691.4	9054	-9933	10182	257.31

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI		FROM	AGZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
585	693.0	73699	5336	67094	17: 44
117	694.8	26044	-62264	65164	252.84
521	695.1	38889	-2232	32148	183.98
180	698.9	-40780	-319	47599	359.62
168	699.5	-4420	10749	15551	43.73
148	699.9	-33140	-5815	40379	351.72
595	700.6	119016	- 10231	112663	185.21
346	702.6	7535	-10906	10930	266.24
167	702.9	-3183	12853	16286	52.11
410	720.4	-10623	-4860	18106	344.43
76	720.7	48455	- 17620	45212	202.94
332	741.9	5065	-22977	23044	274.36
118	751.2	24153	-60944	63362	254.12
300	755.4	-828	-22399	23668	288.85
191	757.6	-46092	-44150	68910	320.16
74	766.8	48573	-11539	43321	195.45
384	780.2	3643	26305	26496	83.12
138	782.4	-22856	-245	29675	359.53
57	791.0	32122	5650	25928	167.41
575	793.8	64743	-6454	58284	186.36
564	798.1	45042	7816	39015	168.44
95	799.1	24203	2748	17600	171.02
77	814.5	51433	- 17959	48094	201.93
56	816.9	35737	3732	29159	172.65
229	818.0	-16522	-13706	27067	329.58
519	826.6	38830	-1541	32050	182.76
128	829.9	1177	-21125	21865	284.95
93	831.8	21425	-1136	14651	184.45
137	868.9	- 19273	-3485	26322	352.39
157	882.3	-24597	12709	33889	22.03
53	885.0	33724	-505	26911	181.08
49	961.8	22796	-5106	16774	197.72
132	971.3	-7959	-4869	15558	341.76
106	976.2	38481	-3271	31832	185.90
86	981.8	23071	-9121	18637	209.30
392	984.5	2384	18668	19187	76.64
122	1061.4	4128	-28994	29118	275.30
8	1065.7	-88416	6874	95482	4.13
90	1085.1	21228	-3070	14733	192.03
85	1101.2	27727	-8081	22416	201.13
391	1105.0	5262	23815	23866	86.26

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDI	NATES	FRON	1 GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
89	1108.5	22184	-1705	15460	186.33
335	1112.6	3818	-9395	9862	287.71
586	1124.2	85553	14020	79974	169.90
27	1125.1	28374	12433	24885	150.02
108	1143.4	42317	-3070	35631	184.94
308	1145.9	-1881	- 29577	30830	286.39
638	1153.7	113217	-9345	106809	185.02
20	1164.4	68347	-50572	79646	219.42
143	1187.4	-22259	2993	29230	5.88
584	1188.5	77608	11089	71653	171.10
63	1190.6	43045	2610	36321	175.88
59	1240.6	39676	3388	33032	174.11
163	1258.9	7598	7456	16230	27.35
61	1270.7	51540	2268	44780	177.10
83	1319.2	27715	-7536	22214	199.83
344	1354.5	7268	-12013	12022	267.86
103	1404.9	19369	-5813	13832	204.85
50	1467.6	33932	1407	27150	177.03
84	1548.1	27465	-8472	22317	202.31
60	1624.6	56631	-435	49815	180.50
62	1719.5	45058	557	38244	179.17
580	1723.2	72407	- 1864	65615	181.63
46	1776.2	30756	1241	23970	177.03
52	1820.4	34520	- 1095	27723	182.26
51	1840.9	35653	882	28849	178.25
311	2036.6	145	-31009	31719	282.14
44	2079.4	34175	3677	27603	172.34
123	2231.7	5082	-30731	30780	273.23
306	2372.3	-2074	-23100	24752	291.05
45	2558.6	31093	1323	24311	176.88
158	2907.5	-13782	-1598	20662	355.56
534	3020.9	1858	18150	18815	74.71
94	3082.6	20960	948	14174	176.16
96	3575.4	19236	1545	12514	172.91
41	3845.2	62634	1103	55827	178.87
160	3869.1	- 5604	-432	12430	358.01
389	3942.7	-62	20897	22001	71.78
130	3978.0	-5527	-13222	18089	313.04
599	4408.9	148084	4829	141349	178.04
474	4490.6	2726	7759	8772	62.19
582	4525.7	67411	14840	62384	166.24

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY WEIGHT

		COORDII	NATES	FROM GZ:		
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH	
	(gm)	(mm)	(mm)	(mm)	(deg)	
135	4676.5	-14873	-3372	21952	351.16	
594	5311.1	115633	-2433	108842	181.28	
47	5376.3	33965	-10736	29192	201.58	
353	5669.9	8941	-23849	23944	264.91	
590	6137.4	87194	1410	80389	178.99	
121	7248.4	2834	-26827	27121	278.45	
43	7661.9	34523	7459	28692	164.93	
40	11893.2	54836	-4186	48200	184.98	
	289971.2					

2.5 MASS DISTRIBUTION

The weights from the "Sorted by Weight" database (Subsection 2.4) were scaled up to a full-size structure by multiplying by 27. The scaled-up weights were then divided into weight intervals. The number of pieces and total weight of PAS-3 debris in each weight interval were calculated, producing information that became the basis for the mass-distribution table.

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEI	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT	INTE	ERVAL	OF	WEIGHT
	(gm)	(lb)	((lb)	PIECES	(lb)
440	29.0	1.73				
443	32.4	1.93				
444	35.5	2.11	1.75	- 2.25	3	5.77
435	41.4	2.46				
436	43.2	2.57				
439	44.3	2.64				
431	44.5	2.65				
456	44.6	2.65				
214	45.2	2.69				
455	46.7	2.78	2.25	2.75	7	18.45
442	48.7	2.90				
453	49.5	2.95				
644	50.4	3.00			[
16	51.0	3.04			}	
437	52.0	3.10				
447	52.0	3.10				
600	52.3	3.11	2.75	3.25	7	21.18
241	55.5	3.30				
438	56.7	3.38				
224	57.5	3.42			1	
245	58.6	3.49				
448	58.6	3.49				
473	59.4	3.54			1	
434	59.7	3.55				
202	60.5	3.60			1	
450	60.5	3.60			1	
225	61.0	3.63				
452	62.1	3.70				
559	62.7	3.73			1	
216	62.8	3.74	3.25	3.75	13	46.17
189	63.9	3.80				
212	64.2	3.82			1	
206	64.6	3.85				
284	65.0	3.87				
446	65.8	3.92				
603	66.4	3.95]	
221	66.5	3.96				
457	66.5	3.96				
3	67.3	4.01]	
630	69.0	4.11			1	
417	69.2	4.12				

PAS-3
CONCRETE DEBRIS COLLECTION SURVEY
MASS DISTRIBUTION

I.D. MARK	WEIGHT	SCALED-UP WEIGHT	WEI	GHT RVAL	NUMBER OF	TOTAL WEIGHT
I.D. WITHIN	(gm)	(lb)		lb)	PIECES	(lb)
445	69.5	4.14		<u></u>		
510	70.1	4.17				
25	70.3	4.18				
476	70.4	4.19				
620	70.6	4.20	3.75	4.25	16	64.25
246	71.8	4.27				
619	71.9	4.28				
561	72.2	4.39				
297	73.1	4.35				
624	73.6	4.38				
623	74.1	4.41				
288	74.4	4.43)	
458	75.1	4.47				
233	75.5	4.49			1	
641	76.8	4.57				
213	77.8	4.63				
552	78.0	4.64				
459	78.2	4.65				
4	78.6	4.68				
604	78.9	4.70				
24	79.2	4.71				
555	79.8	4.75	4.25	4.75	17	76.73
285	80.7	4.80				
9	80.8	4.81				
615	81.0	4.82				
516	81.1	4.83				
185	81.5	4.85				
211	82.6	4.92				
252	83.1	4.95				
429	83.7	4.98				
197	84.0	5.00				
478	86.1	5.13				
265	86.9	5.17				
264	87.5	5.21				
260	88.0	5.24				
605	88.0	5.24	4.75	5.25	14	69.94
181	88.6	5.27				
640	88.8	5.29				
261	88.9	5.29				
451	89.6	5.33				
466	89.6	5.33				

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEI	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT	INTE	RVAL	OF	WEIGHT
	(gm)	(lb)	(lb)	PIECES	(lb)
622	89.8	5.35				
642	89.9	5.35				
490	90.0	5.36	l i			
506	90.1	5.36				
217	90.3	5.38				
282	91.6	5.45				
199	92.4	5.50				
460	92.7	5.52				
259	93.2	5.55				
481	96.0	5.71				
17	96.1	5.72				
433	96.3	5.73	5.25	5.75	17	92.50
637	97.2	5.79				
201	97.9	5.83				
338	98.2	5.85		i		
170	98.6	5.87				
244	98.8	5.88				
219	99.1	5.90				
577	99.1	5.90			ĺ	
461	99.3	5.91				
454	99.5	5.92				
616	99.6	5.93				
243	99.7	5.93				
480	100.1	5.96				
550	101.0	6.01				
626	101.5	6.04				
236	101.8	6.06				
23	102.4	6.10				
463	102.4	6.10				
234	102.8	6.12				
602	103.1	6.14				
614	103.1	6.14				
400	103.9	6.18				
489	103.9	6.18				
462	104.3	6.21				
220	104.9	6.24	5.75	6.25	24	144.18
296	105.3	6.27		j		
235	105.5	6.28				
283	105.6	6.29				
226	106.0	6.31				1
549	106.2	6.32				

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

ID MARK	WEIGHT	SCALED-UP WEIGHT	WEIGHT INTERVAL	NUMBER OF	TOTAL WEIGHT
I.D. MARK			(lb)	PIECES	(lb)
606	(gm) 106.6	(lb) 6.35	(10)	FIECES	(10)
175	100.0	6.39			
278	107.3	6.39			
386	107.4	6.40			
196	107.5	6.43			
485	108.0	6.43			
193	108.6	6.46			
32	108.8	6.48			
218	108.8	6.48			
209	109.6	6.52			
482	109.8	6.54			
432	109.9	6.54			
33	110.5	6.58		1	
262	110.7	6.59			
540	111.0	6.61			
412	111.9	6.66			
539	112.0	6.67			
207	112.5	6.70			
428	112.8	6.71	6.25 6.75	24	155.38
573	113.7	6.77		1	
621	113.7	6.77		i	
488	113.9	6.78			
617	113.9	6.78			
493	115.0	6.85			
215	115.2	6.86			
499	116.7	6.95		1	į
176	116.8	6.95			
475	116.9	6.96			ļ
551	117.4	6.99			
568	117.4	6.99			
472	117.7	7.01			
483	117.9	7.02			
266	118.2	7.04			
174	118.5	7.05			
205	118.7	7.07			
277	118.8	7.07			
15	119.0	7.08			
613	119.1	7.09			
354	120.2	7.15			
612	120.7	7.19			
256	120.8	7.19			

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

	· · · · · · · · · · · · · · · · · · ·	SCALED-UP	WEI	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT		INTERVAL		WEIGHT
	(gm)	(lb)	(lb)		PIECES	(lb)
376	120.9	7.20				
597	121.0	7.20				
404	121.5	7.23	6.75	7.25	25	175.22
513	122.8	7.31				
574	123.1	7.33				
230	124.4	7.40				
302	124.4	7.40				
318	124.4	7.40				
223	124.7	7.42				
179	125.5	7.47				
304	125.5	7.47				
497	125.5	7.47				
325	125.9	7.49				
548	126.6	7.54				
533	127.0	7.56				
514	127.1	7.57				
323	127.2	7.57				
547	127.4	7.58				
355	127.5	7.59				
406	127.5	7.59				
263	128.0	7.62				
498	128.6	7.65			! 	
507	128.8	7.67				
408	129.0	7.68				
336	129.8	7.73				
634	129.9	7.73				
257	130.0	7.74	7.25	7.75	24	180.99
399	130.6	7.77				
171	130.7	7.78				
479	131.7	7.84				
572	131.7	7.84				
182	131.8	7.85				
152	131.9	7.85				
295	131.9	7.85				
366	132.7	7.90				
151	133.7	7.96				
430	134.4	8.00				
494	134.9	8.03				
198	135.8	8.08				1
368	135.8	8.08				
381	136.0	8.10				· · · · · · · · · · · · · · · · · · ·

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP		GHT	NUMBER OF	TOTAL
I.D. MARK	WEIGHT	WEIGHT	1	INTERVAL		WEIGHT
	(gm)	(lb)	(lb)	PIECES	(lb)
449	137.2	8.17				
569	137.4	8.18				
518	137.7	8.20				
258	137.9	8.21	7.75	8.25	18	143.68
426	139.1	8.28				
511	139.1	8.28				
250	139.4	8.30				
425	139.4	8.30				
646	139.4	8.30				
487	139.5	8.30				
509	139.6	8.31				
611	139.6	8.31				
501	140.1	8.34				
22	140.3	8.35				
367	141.2	8.40				
210	141.4	8.42				
388	141.4	8.42				
12	141.9	8.45			1	
303	142.6	8.49				
253	142.7	8.49				
556	142.9	8.51				
477	143.2	8.52				
538	143.5	8.54				
470	143.7	8.55				
492	143.7	8.55				
635	144.1	8.58				
420	145.1	8.64				
631	145.5	8.66				
398	146.9	8.74	8.25	8.75	25	211.03
272	147.9	8.80		i		
357	148.2	8.82				
515	150.5	8.96				
112	150.7	8.97				
503	151.1	8.99				
314	152.8	9.10				
187	153.1	9.11				
566	153.4	9.13				
383	153.7	9.15				
535	154.3	9.18				
567	154.5	9.20				
345	154.6	9.20				

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEi	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT	INTE	ERVAL	OF	WEIGHT
	(gm)	(lb)	((lb)	PIECES	(lb)
484	155.2	9.24	8.75	9.25	13	117.86
165	155.5	9.26				
319	156.2	9.30				
337	156.7	9.33				
333	158.2	9.42				
554	158.8	9.45]	
286	159.4	9.49				
469	159.8	9.51				
421	160.2	9.54			ļ	
523	160.4	9.55				
563	161.3	9.60				
500	161.7	9.63				
359	162.1	9.65				
486	162.6	9.68				
222	162.7	9.68]	
274	163.0	9.70]	
26	163.1	9.71				
249	163.4	9.73	9.25	9.75	17	162.21
13	164.9	9.82				
618	165.0	9.82				
378	165.4	9.85				
379	166.3	9.90				
495	167.1	9.95				
598	168.7	10.04				
405	168.9	10.05				i
363	169.5	10.09				j
150	169.7	10.10				
543	171.5	10.21				
228	171.8	10.23				
557	171.9	10.23	9.75	10.25	12	120.28
115	172.7	10.28				
14	173.3	10.32				Ì
530	173.6	10.33				
204	173.8	10.35			1	!
365	174.5	10.39				Ì
67	174.6	10.39				
99	175.3	10.43				
240	176.4	10.50				
113	176.7	10.52			}	
287	178.1	10.60				
531	178.3	10.61				

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEI	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT	INTE	RVAL	OF	WEIGHT
	(gm)	(lb)	(lb)	PIECES	(lb)
362	178.6	10.63				
238	179.2	10.67				
155	180.6	10.75	10.25	10.75	14	146.77
468	180.9	10.77			ļ	
275	181.0	10.77			1	
10	181.1	10.78				
528	181.2	10.79				
330	181.6	10.81			}	
529	181.6	10.81				
102	182.3	10.85				
280	182.3	10.85				
361	183.1	10.90				
347	183.8	10.94				
553	184.2	10.96				
273	184.5	10.98				
465	185.4	11.04			!	
571	185.8	11.06				
390	186.7	11.11				
200	188.4	11.21				
248	188.4	11.21	10.75	11.25	17	185.85
78	189.6	11.29				
628	190.1	11.32				
636	190.3	11.33			!	
356	190.7	11.35				
271	190.8	11.36				
309	191.0	11.37				
183	191.8	11.42				
6	192.2	11.44				
104	192.7	11.47			ļ	
627	193.3	11.51				
351	194.2	11.56				
5	195.9	11.66				
251	196.4	11.69				
496	197.3	11.74				
380	197.6	11.76				
184	197.9	11.78				
194	198.2	11.80				
524	198.6	11.82				
416	198.8	11.83				
407	199.1	11.85				
19	199.7	11.89		_		

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		'CALED-UP	WEIG		NUMBER	
I.D. MARK	WEIGHT	WEIGHT		RVAL	OF	WEIGHT
	(தம்)	(lb)	(lb)	PIECES	(lb)
98	200.1	11.91				,
520	200.7	11.95				
242	202.3	12.04				
610	202.5	12.05				
348	205.0	12.20				
372	205.1	12.21				
11	206.0	12.26			1	i
328	207.0	12.32				
491	207.7	12.36			1	
31	208.4	12.40				
589	209.1	12.45				
164	211.4	12.58				
267	212.7	12.66				
464	212.9	12.67	11.25	12.75	35	415.31
352	214.3	12.76				
583	215.0	12.80				
441	215.1	12.80				
545	215.5	12.83			!	
120	216.9	12.91				
126	217.2	12.93				
373	217.9	12.97			!	
2	219.6	13.07				
254	219.7	13.08				!
313	220.5	13.13				:
334	220.9	13.15				I
537	224.3	13.35				
413	224.5	13.36				ļ
343	224.6	13.37			:	
208	225.0	13.39			1	
69	225.6	13.43			1	
576	226.0	13.45			i i	
581	229.2	13.64			į	į
364	230.1	13.70				
517	230.5	13.72				į
570	230.9	13.74				ļ.
512	231.0	13.75				<u> </u>
116	231.1	13.76				
255	231.1	13.76				ļ :
360	231.5	13.78				į
315	231.8	13.80				!
414	232.5	13.84				<u> </u>

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEIG	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT	INTE	INTERVAL		WEIGHT
	(gm)	(!b)	(lb)		PIECES	(lb)
375	234.9	13.98	12.75	14.25	28	374.24
377	239.8	14.27				
427	241.0	14.35				
80	243.1	14.47				
310	243.4	14.49			!	
298	245.6	14.62				
21	251.5	14.97				
88	251.6	14.98				
502	251.7	14.98				
409	252.6	15.04				
419	254.0	15.12				
70	255.6	15.21				
382	256.2	15.25				
65	260.2	15.49				
186	261.5	15.57				
227	264.7	15.76				
329	264.8	15.76				
596	265.0	15.77				
358	267.1	15.90				
339	268.1	15.96				
397	269.1	16.02				
402	269.5	16.04				
411	270.5	16.10				
73	272.1	16.20				
340	272.4	16.21				
422	273.9	16.30				
192	274.2	16.32				
320	274.9	16.36				
301	275.4	16.39				
522	275.8	16.42				
578	275.8	16.42				
231	278.5	16.58				
645	281.1	16.73	14.25	16.75	32	500.05
312	281.5	16.76				
403	282.6	16.82				
30	283.4	16.87				
289	287.0	17.08				
342	288.4	17.17				
203	289.3	17.22				
169	290.4	17.29			}	
105	290.7	17.30				

PAS-3 CONCRETE DEBRIS CO'.LECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEI		NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIG.IT	INTERVAL		OF	WEIGHT
	(gm)	(lb)	(lb)		PIECES	(lb)
546	293.4	17.46				
350	297.6	17.71			!	
136	297.7	17.72			1	
190	297.9	17.73				
317	298.8	17.79				
536	298.8	17.79				
307	299.5	17.83				
146	306.2	18.23				
331	306.2	18.23	16.75	18.25	17	296.99
542	307.7	18.32				
394	311.4	18.54				
82	314.2	18.70			[
29	315.1	18.76				
558	316.3	18.83				
526	317.5	18.90				
415	319.1	18.99				
110	319.2	19.00				
544	319.4	19.01				
632	319.9	19.04				
579	321.2	19.12				
172	322.6	19.20				
145	323.4	19.25			[
423	324.1	19.29				
562	324.2	19.30				
633	326.2	19.42			İ	
395	327.1	19.47				
369	329.0	19.58				
505	338.6	20.16				
541	339.3	20.20				
177	340.0	20.24				
625	340.6	20.27				· ·
107	353.3	21.03				
97	353.9	21.07				
131	354.0	21.07				
109	355.6	21.17				
527	356.8	21.24			[•
401	357.3	21.27			}	
290	360.1	21.43	18.25	21.75	29	571.86
173	365.7	21.77				
504	367.5	21.88				!
525	370.6	22.06				

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	i .	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT	1	ERVAL	OF	WEIGHT
	(gm)	(lb)		(lb)	PIECES	(lb)
153	373.7	22.24				
374	375.6	22.36				
593	376.1	22.39				
294	383.0	22.80			1	
269	386.2	22.99				
322	386.6	23.01				
588	388.2	23.11				
71	388.6	23.13				
54	388.7	23.14				
7	390.4	23.24	21.75	23.25	13	294.11
18	391.2	23.29				
508	392.8	23.38				-
68	392.9	23.39				
424	394.1	23.46				
237	403.1	23.99				
316	403.6	24.02				
591	404.7	24.09				
532	413.4	24.61				
629	414.0	24.64		:		
101	416.2	24.77				
232	416.9	24.82				
385	422.2	25.13				
162	426.7	25.40				
371	428.6	25.51		j		
159	429.9	25.59				
142	430.4	25.62				
279 154	430.5	25.63				
134 48	432.8 433.5	25.76 25.80				
46 471	433.3	25.88				ļ
292	434.8	25.89 25.89		1		
87	439.8	26.18				
161	441.0	26.25				
305	449.1	26.73	23.25	26.75	24	599.84
321	450.4	26.81	20.20	20.75	27	377.07
639	451.1	26.85				
58	461.5	27.47		}		
587	467.1	27.80	26.75	28.25	4	108.94
100	482.3	28.71			,	
341	495.9	29.52				
114	497.8	29.63				

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEI	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT		RVAL	OF	WEIGHT
	(gm)	(lb)	(lb)	PIECES	(lb)
247	498.5	29.67				
270	498.6	29.68				,
124	502.6	29.92			j	
166	510.2	30.37				
134	514.9	30.65			1	
560	517.1	30.78				
127	518.4	30.86				
601	518.5	30.86				
81	523.7	31.17				
28	527.4	31.39				
42	527.7	31.41				
195	529.5	31.52	28.25	31.75	15	456.14
133	533.6	31.76				
543	534.3	31.80				,
55	550.1	32.74				
387	553.2	32.93	31.75	33.25	4	129.24
396	571.8	34.04			1	
66	580.1	34.53				
370	584.8	34.81				
276	595.2	35.43]	
75	603.1	35.90				
418	604.9	36.01				
299	609.5	36.28	33.25	36.75	7	246.99
565	619.0	36.85				
119	619.8	36.89				
91	637.8	37.96				
592	650.0	38.69			}	
326	651.4	38.77				
144	653.1	38.88				
141	654.7	38.97				
72	660.8	39.33				
147	661.2	39.36				,
92	666.0	39.64				
178	666.1	39.65				
64	671.2	39.95				
111	677.6	40.33				
156	681.1	40.54				
79	685.6	40.81				
125	689.0	41.01				
393	689.4	41.04				
349	691.4	41.16				

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEI	GHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT	INTE	RVAL	OF	WEIGHT
ł	(gm)	(lb)	((lb)	PIECES	(lb)
585	693.0	41.25				
117	694.8	41.36				
521	695.1	41.38				
180	698.9	41.60				
168	699.5	41.64				
148	699.9	41.66				
595	700.6	41.70				
346	702.6	41.82				
167	702.9	41.84				
410	720.4	42.88				
76	`1.7	42.90	36.75	43.25	29	1169.88
332	74'	44.16				
118	751.2	44.72				
300	755.4	44.97				
191	757.6	45.10				
74	766.8	45.64				
384	780.2	46.44				1
138	782.4	46.57				
57	791.0	47.08				
575	793.8	47.25				
564	798.1	47.51				
95	799.1	47.57				
77	814.5	48.48				
56	816.9	48.63			!	
229	818.0	48.69				
519	826.6	49.20				
128	829.9	49.40				
93	831.8	49.51				
137	868.9	51.72				
157	882.3	52.52				
53	885.0	52.68	43.25	56.75	20	957.84
49	961.8	57.25				
132	971.3	57.82				l
106	976.2	58.11				
86	981.8	58.44				
392	984.5	58.60			_	
122	1061.4	63.18	56.75	63.25	6	353.40
8	1065.7	63.44				
90	1085.1	64.59				ı
85	1101.2	65.55				
391	1105.0	65.77				

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

		SCALED-UP	WEIGHT	NUMBER	TOTAL
I.D. MARK	WEIGHT	WEIGHT	INTERVAL	OF	WEIGHT
	(gm)	(lb)	(lb)	PIECES	(lb)
89	1108.5	65.98			
335	1112.6	66.23			<u> </u>
586	1124.2	66.92			
27	1125.1	66.97			
108	1143.4	68.06			
308	1145.9	68.21			
638	1153.7	68.67			
20	1164.4	69.31			
143	1187.4	70.68			
584	1188.5	70.75			
63	1190.6	70.87			
59	1240.6	73.85			
163	1258.9	74.94			
61	1270.7	75.64	63.25 76.7	5 18	1236.42
83	1319.2	78.53			
344	1354.5	80.63			
103	1404.9	83.63			
50	1467.6	87.36			
84	1548.1	92.15			į
60	1624.6	96.70			
62	1719.5	102.35			
580	1723.2	102.57			
46	1776.2	105.73			
52	1820.4	108.36			
51	1840.9	109.58			
311	2036.6	121.23			
44	2079.4	123.78			
123	. 2231.7	132.84			
306	2372.3	141.21			
45	2558.6	152.30			
158	2907.5	173.07			
534	3020.9	179.82			
94	3082.6	183.49			
96	3575.4	212.82			
41	3845.2	228.88			
160	3869.1	230.31			
389	3942.7	234.69			
130	3978.0	236.79			
599	4408.9	262.44			
474	4490.6	267.30			
582	4525.7	269.39			

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY MASS DISTRIBUTION

I.D. MARK	WEIGHT	SCALED-UP WEIGHT	WEIGHT INTERVAL	NUMBER OF	TOTAL WEIGHT
1	(gm)	(lb)	(lb)	PIECES	(lb)
135	4676.5	278.37			
594	5311.1	316.14			
47	5367.3	319.49			
353	5669.9	337.50			
590	6137.4	365.33			
121	7248.4	431.46			
43	7661.9	456.07			
40	11893.2	707.94	>76.75	35	7410.25
Tota	ls:	17259.95		623	17259.95

2.6 SORTED BY RANGE

The database from Subsection 2.4 was sorted by range from nearest to farthest to generate the data presented in this subsection.

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORDINATES		FROM	1 GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
1	(gm)	(mm)	(mm)	(mm)	(deg)
340	272.4	6257	-7813	7833	274.11
339	268.1	6578	-8351	8355	271.64
474	4490.6	2726	7759	8772	62.19
338	98.2	6388	-9052	9062	272.72
402	269.5	-2801	810	9653	4.81
337	156.7	5875	- 9656	9702	275.58
270	498.6	-3037	-375	9862	357.82
335	1112.6	3818	9395	9862	287.71
336	129.8	3808	-9586	10047	287.43
469	159.8	-3118	-2007	10137	348.58
349	691.4	9054	-9933	10182	257.31
341	495.9	8373	-10072	10191	261.22
358	267.1	10027	-9685	10203	251.67
359	162.1	10170	-9732	10293	250.99
401	357.3	-3387	1384	10298	7.72
466	89.6	-3135	-3415	10522	341.06
468	180.9	-3407	-2861	10618	344.37
347	183.8	6144	-10634	10655	273.63
161	441.0	-3793	-1316	10693	352.93
475	116.9	14438	7534	10716	135.32
465	185.4	-3290	-3794	10797	339.43
470	143.7	-4066	-380	10891	358.00
348	205.0	8459	-10805	10928	261.37
346	702.6	7535	-10906	10930	266.24
471	434.8	-2945	4914	10930	26.72
350	297.6	9415	-10718	11028	256.38
400	103.9	-4139	1654	11081	8.58
343	224.6	7004	-11092	11093	269.04
360	231.5	14025	-8441	11099	229.51
269	386.2	-4169	1630	11107	8.44
472	117.7	-1976	7001	11241	38.52
415	319.1	-3166	- 5244	11277	332.29
414	232.5	-2832	- 5986	11356	328.19
345	154.6	7405	-11425	11440	267.06
342	288.4	7346	-11454	11466	267.36
463	102.4	-4613	-2311	11662	348.57
403	282.6	-4991	-713	11830	356.54
22	140.3	17717	4647	11848	156.91
344	1354.5	7268	-12013	12022	267.86
464	212.9	-4386	-4543	12090	337.93
445	69.5	-3998	5691	12222	27.75

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FROI	FROM GZ:		
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH		
	(gm)	(mm)	(mm)	(mm)	(deg)		
21	251.5	18188	4510	12231	158.36		
31	208.4	18773	2721	12261	167.18		
33	110.5	18815	2961	12357	166.13		
462	104.3	-5545	-532	12375	357.54		
334	220.9	4627	- 12216	12411	280.17		
160	3869.1	- 5604	-432	12430	358.01		
23	102.4	18484	4386	12464	159.39		
473	59.4	1127	11095	12469	62.85		
96	3575.4	19236	1545	12514	172.91		
25	70.3	18288	5428	12690	154.67		
267	212.7	-4403	5949	12701	27.93		
265	86.9	-4785	5229	12727	24.26		
333	158.2	5045	- 12703	12827	277.94		
444	35.5	-2231	9104	12836	45.18		
449	137.2	-5607	3288	12853	14.82		
476	70.4	16/12	8257	12887	140.15		
352	214.3	8789	-12745	12897	261.21		
287	178.1	- 5799	-2675	12897	348.03		
351	194.2	9161	- 12689	12903	259.54		
24	79.2	18804	4938	12964	157.61		
162	426.7	-6091	2214	13098	9.73		
288	74.4	5996	~2740	13104	347.93		
266	118.2	- 5726	4218	13235	18.59		
460	92.7	-6393	-934	13244	355.96		
289	287.0	-5310	-5361	13260	336.15		
32	108.8	18154	6947	13295	148.50		
286	159.4	-6148	-3052	13320	346.76		
399	130.6	-6441	1381	13331	5.94		
357	148.2	12958	-11858	13354	242.63		
398	146.9	- 3559	1523	13463	6.50		
461	99.3	-6669	-1116	13533	355.27		
450	60.5	-6357	3153	13547	13.46		
290	360.1	-5312	-6072	13565	333.41		
443	32.4	-2677	9694	13569	45.59		
165	155.5	- 5489	5772	13594	25.13		
330	181.6	2994	-13173	13717	286.19		
331	306.2	3341	-13343	13789	284.61		
404	121.5	-6979	-845	13823	356.49		
103	1404.9	19369	-5813	13832	204.85		
364	230.1	20028	-4262	13880	197.88		
477	143.2	20686	801	13892	176.69		

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FRO	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
}	(gm)	(mm)	(mm)	(mm)	(deg)
365	174.5	20566	-2104	13908	188.70
285	80.7	-6836	-2730	13925	348.69
329	264.8	2884	-13430	13994	286.32
91	637.8	20748	-2272	14114	189.26
94	3082.6	20960	948	14174	176.16
284	65.0	-7074	-2897	14191	348.22
478	86.1	21065	827	14271	176.68
451	89.6	-7022	3501	14276	14.19
452	62.1	-7145	3327	14354	13.40
159	429.9	-7512	-1128	14374	355.50
413	224.5	-5380	-7642	14394	327.93
292	435.0	-5377	-7678	14411	327.81
30	283.4	21023	2684	14456	169.30
448	58.6	-7414	2571	14462	10.24
164	211.4	-6341	6075	14494	24.78
479	131.7	21353	56	14535	179.78
446	65.8	-6573	5762	14578	23.28
101	416.2	20980	-3639	14622	194.41
447	52.0	-6771	5442	14639	21.83
93	831.8	21425	-1136	14651	184.45
361	183.1	15224	-12043	14686	235.09
442	48.7	-2353	11485	14698	51.39
90	1085.1	21228	-3070	14733	192.03
453	49.5	-7749	2340	14754	9.13
29	315.1	21202	3423	14785	166.61
92	666.0	21549	-1591	14817	186.16
394	311.4	5783	14852	14888	86.01
362	178.6	14124	- 12992	14905	240.65
26	163.1	21273	4275	15074	163.53
280	182.3	-7374	-5525	15230	338.73
383	153.7	22126	1515	15383	174.35
166	510.2	-5366	9439	15413	37.77
89	1108.5	22184	- 1705	15460	186.33
168	699.5	-4420	10749	15551	43.73
132	971.3	-7959	-4869	15558	341.76
264	87.5	-8329	3643	15579	13.53
411	270.5	-6884	-7517	15629	331.25
295	131.9	-7026	-7260	15632	332.33
294	383.0	-6904	−7562	15667	331.14
412	111.9	-6957	−7798	15829	330.48
102	182.3	22210	-3707	15832	193.54

PAS-3
CONCRETE DEBRIS COLLECTION SURVEY
SORTED BY RANGE

		COORD	INATES	FROM GZ:	
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
283	105.6	-8606	-4332	16021	344.31
405	168.9	-9091	-2206	16062	352.10
279	430.5	- 7908	-6432	16070	336.40
480	100.1	22899	1670	16167	174.07
163	1258.9	-7598	7456	16230	27.35
379	166.3	23019	1508	16271	174.68
167	702.9	-3183	12853	16286	52.11
459	78.2	-9490	-763	16326	357.32
133	533.6	-9310	-3043	16412	349.31
278	107.4	-8545	- 5783	16415	339.37
441	215.1	-2676	13428	16445	54.74
406	127.5	-9587	- 1765	16500	353.86
393	689.4	5941	16609	16632	86.98
282	91.6	-9275	-4532	16719	344.27
49	961.8	22796	-5106	16774	197.72
482	109.8	23594	984	16805	176.64
368	135.8	23329	-3258	16830	191.16
380	197.6	23442	2625	16830	171.03
454	99.5	-10041	1607	16935	5.45
457	66.5	-10263	-376	17085	358.74
88	251.6	23658	-2983	17102	190.04
458	75.1	-10413	-403	17236	358.66
263	128.0	- 10319	2571	17329	8.53
134	514.9	-10061	-4047	17357	346.52
481	96.0	24215	404	17401	178.67
408	129.0	-10266	-3641	17467	347.97
483	117.9	24303	-302	17488	180.99
455	46.7	-10639	1704	17540	5.57
262	110.7	- 10559	2467	17551	8.08
95	799.1	24203	2748	17600	171.02
247	498.5	-10483	-3366	17625	348.99
261	88.9	- 10706	2731	17735	8.86
407	199.1	- 10490	-4024	17770	346.91
276	595.2	-9348	-7762	17933	334.35
378	165.4	24848	306	18033	179.03
100	482.3	24886	-706	18082	182.24
130	3978.0	-5527	-13222	18089	313.04
410	720.4	- 10623	-4860	18106	344.43
367	141.2	24725	-2864	18134	189.09
274	163.0	- 7049	-11689	18136	319.87
435	41.4	-1394	16189	18152	63.10

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FROM GZ:	
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
260	88.0	-11401	- 59	18219	359.82
377	239.8	25085	955	18291	177.01
275	181.0	-8036	- 10752	18337	324.10
381	136.0	25003	2873	18410	171.02
273	184.5	-7485	-11611	18423	320.93
485	108.0	24346	5897	18494	161.40
87	439.8	24333	-6219	18587	199.55
409	252.6	-11450	-3495	18599	349.17
259	93.2	-11777	-821	18613	357.47
440	29.0	-3232	15668	18614	57.32
86	981.8	23071	-9121	18637	209.30
436	43.2	-278	17324	18721	67.73
456	44.6	-11752	2460	18732	7.55
534	3020.9	1858	18150	18815	74.71
277	118.8	-10682	-7300	18962	337.36
366	132.7	25718	-3222	19172	189.67
392	984.5	2384	18668	19187	76.64
438	56.7	1393	18406	19189	73.58
555	79.8	25701	3485	19202	169.54
437	52.0	130	18429	19605	70.05
256	120.8	-13017	1434	19886	4.14
554	158.8	26874	1051	20083	177.00
432	109.9	-2827	17753	20204	61.49
99	175.3	26982	1294	20206	176.33
296	105.3	-6122	-15745	20380	309.41
363	169.5	19828	-15723	20408	230.39
127	518.4	-1542	-18693	20477	294.10
382	256.2	27110	3746	20635	169.54
158	2907.5	-13782	-1598	20662	355.56
617	113.9	27520	236	20703	179.35
48	433.5	26596	-6152	20713	197.28
439	44.3	-1379	19204	20881	66.88
369	329.0	27337	-3878	20882	190.70
484	155.2	27565	-2902	20949	187.96
257	130.0	-14165	-251	20984	359.31
131	354.0	-10098	-12430	20992	323.69
248	188.4	-13822	-4198	21062	348.50
326	651.4	4072	-20936	21115	277.47
258	137.9	-14500	-1448	21367	356.11
249	163.4	- 14505	-1491	21375	356.00
618	165.0	27923	3601	21410	170.32

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FRO	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
255	231.1	-13982	5347	21476	14.42
325	125.9	4315	-21375	21521	276.68
252	83.1	- 14786	1600	21663	4.23
328	207.0	4334	-21714	21856	276.53
128	829.9	1177	-21125	21865	284.95
135	4676.5	-14873	-3372	21952	351.16
486	162.6	28335	-4411	21965	191.58
250	139.4	-15146	-230	21965	359.40
370	584.8	28470	- 3756	21976	189.84
251	196.4	-15127	1316	21984	3.43
389	3942.7	-62	20897	22001	71.78
83	1319.2	27715	-7536	22214	199.83
84	1548.1	27465	-8472	22317	202.31
253	142.7	-15230	3801	22373	9.78
85	1101.2	27727	-8081	22416	201.13
104	192.7	28117	-7253	22500	198.80
254	219.7	- 15377	3698	22501	9.46
374	375.6	29241	1908	22504	175.14
126	217.2	10660	-22178	22508	260.17
322	386.6	3594	-22303	22535	278.22
433	96.3	-2390	20698	22654	66.02
434	59.7	-3187	20337	22665	63.80
272	147.9	-7115	- 17891	22676	307.91
244	98.8	-14846	-7825	23034	340.14
332	741.9	5065	-22977	23044	274.36
298	245.6	-3041	-20873	23084	295.28
321	450.4	2833	-22765	23111	279.93
619	71.9	29286	5500	23131	166.25
136	297.7	- 16077	-4839	23401	348.07
320	274.9	2882	-23092	23425	279.67
299	609.5	-1713	-21825	23433	291.35
271	190.8	-7559	- 18547	23467	307.78
553	184.2	30282	1748	23529	175.74
246	71.8	- 12715	-13150	23547	326.05
323	127.2	3247	-23377	23649	278.68
300	755.4	-828	-22399	23668	288.85
317	298.8	1584	-23235	23817	282.69
170	98.6	- 3994	21275	23865	63.06
391	1105.0	5262	23815	23866	86.26
303	142.6	118	-22978	23934	286.26
353	5669.9	8941	-23849	23944	264.91

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FRO	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
297	73.1	-6543	-19882	23955	303.90
46	1776.2	30756	1241	23970	177.03
302	124.4	-457	-22852	23982	287.66
316	403.6	1224	-23392	24052	283.45
301	275.4	-584	-23071	24230	287.79
620	70.6	29945	7391	24279	162.28
45	2558.6	31093	1323	24311	176.88
305	449.1	-302	-23285	24349	287.00
612	120.7	29007	10028	24350	155.68
490	90.0	30931	-3510	24367	188.28
390	186.7	~153	23357	24376	73.38
304	125.5	-24	-23399	24379	286.30
616	99.6	31283	-291	24467	180.68
356	190.7	6029	-24496	24508	271.85
388	141.4	-2694	22744	24653	67.30
556	142.9	31495	-1017	24698	182.36
28	527.4	27827	13017	24715	148.22
236	101.8	-9613	- 18471	24722	311.66
243	99.7	- 16735	- 7581	24743	342.16
306	2372.3	-2074	-23100	24752	291.05
242	202.3	-17433	-5251	24813	347.78
27	1125.1	28374	12433	24885	150.02
245	58.6	-15743	- 10550	24906	334.94
155	180.6	- 18114	1103	24956	2.53
557	171.9	31877	-1220	25088	182.79
125	689.0	6830	-25111	25111	269.97
373	217.9	31830	2682	25156	173.88
611	139.6	31318	5805	25178	166.67
154	432.8	- 18423	358	25244	0.81
487	139.5	31606	-4897	25267	191.18
489	103.9	31306	-6294	25284	194.41
318	124.4	1548	-24867	25419	281.97
156	681.1	- 18322	3830	25430	8.66
386	.107.5	207	24579	25452	74.95
552	78.0	32229	1875	25481	175.78
314	152.8	2594	-25151	25503	279.53
385	422.2	1771	25016	25520	78.59
55	550.1	32144	3929	25629	171.18
241	55.5	- 15559	- 12510	25637	330.79
227	264.7	-17720	-7442	25642	343.13
416	198.8	-18619	4160	25775	9.29

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

	· · · · · · · · · · · · · · · · · · ·	COORD	INATES	FROI	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
<u>[</u>	(gm)	(mm)	(mm)	(mm)	(deg)
57	791.0	32122	5650	25928	167.41
228	171.8	- 16594	-11215	25959	334.40
82	314.2	31738	-7909	26145	197.61
237	403.1	- 12662	- 17454	26156	318.14
615	81.0	33052	451	26238	179.01
319	156.2	3099	-26004	26269	278.14
137	868.9	- 19273	-3485	26322	352.39
551	117.4	33104	1958	26359	175.74
234	102.8	-8508	-21452	26364	305.54
169	290.4	- 5894	23152	26413	61.23
376	120.9	33222	1046	26425	177.73
354	120.2	6280	-26483	26488	271.16
98	200.1	33024	3871	26490	171.60
384	780.2	3643	26305	26496	83.12
613	119.1	33289	-1375	26506	182.97
226	106.0	-19014	- 5989	26517	346.95
488	113.9	32449	-6821	26523	194.90
238	179.2	-13384	- 17268	26577	319.48
375	234.9	33504	1129	26710	177.58
355	127.5	6178	-26764	26772	271.37
240	176.4	- 14440	-16316	26797	322.49
550	101.0	33625	2186	26896	175.34
53	885.0	33724	- 505	26911	181.08
65	260.2	33733	-400	26918	180.85
173	365.7	-18849	8149	26930	17.61
387	553.2	-2242	25447	27012	70.40
229	818.0	-16522	-13706	27067	329.58
121	7248.4	2834	-26827	27121	278.45
66	580.1	33619	-4264	27138	189.04
50	1467.6	33932	1407	27150	177.03
174	118.5	-19923	5097	27223	10.79
221	66.5	-20458	351	27278	0.74
81	523.7	31988	-11069	27496	203.74
175	107.3	-20478	3441	27512	7.18
614	103.1	34369	859	27564	178.21
493	115.0	34385	-1347	27600	182.80
44	2079.4	34175	3677	27603	172.34
372	205.1	34427	799	27621	178.34
492	143.7	34402	-1505	27625	183.12
209	109.6	-19311	-9005	27637	340.98
315	231.8	384	-26906	27664	283.45

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FRO	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
}	(gm)	(mm)	(mm)	(mm)	(deg)
52	1820.4	34520	-1095	27723	182.26
230	124.4	- 16144	- 15778	27860	325.51
231	278.5	- 12802	- 19787	27866	314.76
54	388.7	34740	-150	27923	180.31
549	106.2	34663	2241	27935	175.40
176	116.8	-21168	773	27997	1.58
371	428.6	34901	1733	28136	176.47
494	134.9	34991	595	28179	178.79
58	461.5	34896	2965	28234	173.97
220	104.9	-21390	1257	28236	2.55
225	61.0	-21378	-3446	28406	353.03
210	141.4	-20336	-8478	28447	342.66
97	353.9	35171	2334	28449	175.29
307	299.5	-2786	-26880	28544	289.66
496	197.3	35104	4027	28572	171.90
235	105.5	-6663	-25237	28612	298.11
43	7661.9	34523	7459	28692	164.93
67	174.6	34932	-5732	28692	191.52
233	75.5	-8679	-24191	28729	302.64
208	225.0	- 19408	-11729	28729	335.90
51	1840.9	35653	882	28849	178.25
497	125.5	35398	4341	28908	171.36
153 -	373.7	-22215	134	29034	0.26
172	322.6	- 18927	13604	29118	27.85
122	1061.4	4128	-28994	29118	275.30
491	207.7	35460	-5348	29137	190.58
56	816.9	35737	3732	29159	172.65
47	5376.3	33965	-10736	29192	201.58
143	1187.4	-22259	2993	29230	5.88
205	118.7	- 18495	- 14902	29373	329.51
211	82.6	-21386	-8285	29395	343.63
498	128.6	36242	2177	29505	175.77
223	124.7	-22666	-1967	29550	356.18
222	162.7	-22841	-519	29663	359.00
138	782.4	-22856	-245	29675	359.53
212	64.2	-22492	-5192	29766	349.95
224	57.5	-22956	-1912	29836	356.33
207	112.5	-21810	-8596	29891	343.29
495	167.1	36740	1952	29985	176.27
548	126.6	37243	1352	30455	177.45
232	416.9	-12358	-23722	30503	308.95

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FRO	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
204	173.8	- 19520	-15528	30575	329.48
395	327.1	-268	29852	30681	76.65
141	654.7	-23923	707	30749	1.32
123	2231.7	5082	-30731	30780	273.23
610	202.5	26780	23478	30817	130.37
308	1145.9	- 1881	-29577	30830	286.39
621	113.7	37639	1095	30841	177.97
105	290.7	37411	-4287	30892	187.98
206	64.6	-21040	-13468	30943	334.20
203	289.3	- 17095	- 19729	31001	320.48
499	116.7	37950	2074	31201	176.19
215	115.2	-24301	2646	31231	4.86
142	430.4	-24421	-482	31242	359.12
510	70.1	36087	11211	31342	159.04
309	191.0	- 1290	-30302	31368	284.98
111	677.6	32628	- 17952	31440	214.82
501	140.1	38239	1397	31452	177.45
506	90.1	37159	9030	31657	163.43
311	2036.6	145	-31009	31719	282.14
106	976.2	38481	-3271	31832	185.90
520	200.7	38782	-1419	31995	182.54
519	826.6	38830	-1541	32050	182.76
124	502.6	5588	- 32056	32079	272.20
500	161.7	38898	1906	32137	176.60
521	695.1	38889	-2232	32148	183.98
214	45.2	25445	-765	32272	358.64
522	275.8	39059	-1825	32293	183.24
202	60.5	- 16498	-22414	32342	316.13
68	392.9	38334	-7604	32420	193.56
505	338.6	38632	6623	32496	168.24
213	77.8	-25714	-2797	32652	355.09
507	128.8	38497	9321	33022	163.60
59	1240.6	39676	3388	33032	174.11
69	225.6	39317	-6152		190.72
80	243.1	37509	-12423	33110	202.04
312	281.5	3081	-32908	33119	276.48
523	160.4	40253	355	33437	179.39
64	671.2	40109	3866	33515	173.38
70	255.6	39808	-6469	33619	191.09
107	353.3	40156	-4451	33634	187.61
152	131.9	-26952	221	33771	0.38

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FROM	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
1	(gm)	(mm)	(mm)	(mm)	(deg)
216	62.8	-26538	5936	33881	10.09
144	653.1	-27063	150	33881	0.25
157	882.3	-24597	12709	33889	22.03
503	151.1	40778	3558	34146	174.02
524	198.6	41269	1764	34496	177.07
502	251.7	41152	3567	34519	174.07
217	90.3	-26031	10858	34597	18.29
219	99.1	-23713	16694	34797	28.67
197	84.0	-27739	-5845	35048	350.40
310	243.4	-1328	-34094	35054	283.44
504	367.5	41665	4800	35176	172.16
110	319.2	37838	- 16625	35194	208.19
146	306.2	-27633	-7336	35224	347.98
194	198.2	-23489	-18142	35322	329.10
511	139.1	42087	2376	35349	176.15
145	323.4	-28632	-874	35460	358.59
108	1143.4	42317	-3070	35631	184.94
508	392.8	40052	12889	35646	158.80
71	388.6	42498	-6081	36195	189.67
63	1190.6	43045	2610	36321	175.88
563	161.3	43074	2553	36346	175.97
558	316.3	42884	- 5569	36493	188.78
193	108.6	-24719	- 18571	36599	329.51
313	220.5	3764	-36494	36621	274.78
512	231.0	43363	3281	36692	174.87
196	108.0	-28502	-10187	36760	343.91
559	62.7	43564	-4817	37060	187.47
560	517.1	43836	-3598	37192	185.55
513	122.8	44036	3269	37361	174.98
561	72.2	44152	-3040	37458	184.66
514	127.1	44266	1812	37491	177.23
151	133.7	-30656	-2458	37554	356.25
516	81.1	44468	-69	37650	180.10
79	685.6	41979	-13636	37713	201.20
171	130.7	-15734	30242	37725	53.29
562	324.2	44469	-3109	37779	184.72
509	139.6	43781	8253	37873	167.41
515	150.5	44712	-629	37899	180.95
62	1719.5	45058	557	38244	179.17
518	137.7	45448	-4727	38918	186.98
564	798.1	45042	7816	39015	168.44

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	COORDINATES		FROM GZ:		
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH		
	(gm)	(mm)_	(mm)	(mm)	(deg)		
72	660.8	45098	-8286	39167	192.21		
150	169.7	-32562	-2606	39467	356.21		
517	230.5	46524	-1893	39751	182.73		
109	355.6	46725	-1416	39932	182.03		
543	534.3	46637	6380	40327	170.90		
198	135.8	-32708	-8133	40354	348.37		
148	699.9	-33140	-5815	40379	351.72		
533	127.0	46776	5861	40385	171.66		
218	108.8	-32427	9761	40440	13.97		
566	153.4	47470	4159	40864	174.16		
147	661.2	-32728	-10430	40898	345.23		
195	529.5	-30158	-18122	41178	333.89		
75	603.1	45674	-14000	41301	199.81		
567	154.5	48585	2184	41824	177.01		
568	117.4	48702	1525	41912	177.91		
565	619.0	48359	5719	41933	172.16		
569	137.4	49361	-5142	42853	186.89		
74	766.8	48573	-11539	43321	195.45		
73	272.1	50558	-6152	44171	188.01		
570	230.9	50405	-8390	44387	190.89		
525	370.6	51419	-1987	44645	182.55		
61	1270.7	51540	2268	44780	177.10		
571	185.8	51104	-7596	44933	189.73		
201	97.9	-35025	- 16597	45014	338.36		
530	173.6	51655	4862	45100	173.81		
76	720.7	48455	-17620	45212	202.94		
199	92.4	-37671	-8990	45388	348.58		
531	178.3	52207	5443	45714	173.16		
526	317.5	52701	-3536	46019	184.41		
540	111.0	53061	-4802	46492	185.93		
532	413.4	53055	5328	46543	173.43		
537	224.3	53210	4206	46582	174.82		
192	274.2	-28210	-31255	46945	318.26		
539	112.0	53800	2112	47030	177.43		
535	154.3	53425	6756	47095	171.75		
538	143.5	53763	4266	47138	174.81		
527	356.8	54098	-1645	47309	181.99		
200	188.4	-38160	-15487	47570	341.00		
180	698.9	-40780	-319	47599	359.62		
430	134.4	-33001	26378	47763	33.52		
177	340.0	-40767	-4831	47830	354.20		

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FRO	м GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
112	150.7	37597	-36695	47894	230.01
77	814.5	51433	- 17959	48094	201.93
529	181.6	54944	1391	48146	178.34
40	11893.2	54836	-4186	48200	184.98
78	189.6	50479	-20494	48232	205.15
528	181.2	55043	1346	48244	178.40
179	125.5	-41082	-6563	48347	352.20
181	88.6	-42267	20	49085	0.02
572	131.7	55112	-8799	49089	190.33
182	131.8	-41535	- 10056	49388	348.25
396	571.8	10549	49472	49612	94.31
60	1624.6	56631	-435	49815	180.50
431	44.5	- 38939	20350	50078	23.98
113	176.7	39135	-38927	50593	230.30
536	298.8	56670	9495	50748	169.22
186	261.5	-41156	-18901	51563	338.50
178	666.1	-44426	-6050	51600	353.27
546	293.4	58775	-10065	52923	190.96
545	215.5	58820	-10171	52987	191.07
541	339.3	59860	-307	53043	180.33
544	319.4	58988	-10113	53141	190.97
42	527.7	59895	3403	53186	176.33
574	123.1	61169	- 1239	54365	181.31
183	191.8	-45952	- 13318	54424	345.84
573	113.7	61174	-2741	54425	182.89
547	127.4	60540	-9411	54540	189.94
397	269.1	9086	54596	54643	92.38
632	319.9	55661	-25656	55171	207.71
185	81.5	-45790	-18066	55624	341.05
184	197.9	-45805	-18053	55634	341.07
41	3845.2	62634	1103	55827	178.87
581	229.2	62924	2690	56170	177.25
542	307.7	62675	<i>−7</i> 754	56393	187.90
114	497.8	46877	-40053	56648	225.00
583	215.0	62652	14555	57700	165.39
575	793.8	64743	-6454	58284	186.36
633	326.2	64662	- 12076	59092	191.79
577	99.1	66292	-4249	59625	184.09
576	226.0	66516	-7224	60134	186.90
115	172.7	46041	-45954	60417	229.52
582	4525.7	67411	14840	62384	166.24

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD		FRO	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
118	751.2	24153	-60944	63362	254.12
578	275.8	70423	-1443	63621	181.30
579	321.2	71524	-683	64710	180.60
421	160.2	- 56027	15545	64739	13.89
117	694.8	26044	-62264	65164	² 52.84
116	231.1	52530	-46784	65409	225.66
580	1723.2	72407	1864	65615	181.63
585	693.0	73699	5336	67094	175.44
191	757.6	- 46092	-44150	68910	320.16
428	112.8	- 52538	35008	68911	30.53
631	145.5	60159	-45067	69831	220.19
420	145.1	-61871	-14311	70164	348.23
187	153.1	- 58292	-26688	70367	337.71
189	63.9	-54532	-35415	70838	330.00
641	76.8	78019	5752	71433	175.38
584	1188.5	77608	11089	71653	171.10
190	297.9	-53241	-40112	72222	326.26
634	129.9	77741	-16092	72725	192.78
417	69.2	-66760	6017	73823	4.67
635	144.1	80409	-16088	75329	192.33
429	83.7	-67991	11561	75697	8.78
423	324.1	-70847	15724	79241	11.45
20	1164.4	68347	-50572	79646	219.42
587	467.1	85444	14027	79868	169.88
586	1124.2	85553	14020	79974	169.90
590	6137.4	87194	1410	80389	178.99
418	604.9	-73703	1722	80540	1.23
588	388.2	86462	13556	80789	170.34
9	80.8	-73463	-20014	82739	346.00
422	273.9	-73531	20466	82915	14.29
589	209.1	89979	12699	84125	171.32
636	190.3	91919	-5827	85300	183.92
591	404.7	92780	-6204	86185	184.13
19	199.7	57974	~70039	86731	233.86
119	619.8	79924	-51045	89163	214.92
630	69.0	76582	-56624	89851	219.06
18	391.2	38150	-84270	89906	249.60
642	89.9	-78326	32074	90985	20.64
419	254.0	-84781	10143	92159	6.32
640	88.8	98124	-20639	93609	192.74
120	216.9	85515	-52611	94663	213.76

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORD	INATES	FRO	M GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
8	1065.7	-88416	6874	95482	4.13
592	650.0	102595	-4782	95896	182.86
593	376.1	104289	483	97473	179.72
426	139.1	- 79254	46143	97660	28.20
427	241.0	-76245	52535	98283	32.31
629	414.0	82501	-65424	100041	220.84
424	394.1	-86938	47729	105206	26.98
622	89.8	112002	7404	105444	175.97
639	451.1	111426	-13341	105455	187.27
638	1153.7	113217	-9345	106809	185.02
637	97.2	113372	-9088	106941	184.87
17	96.1	51817	-98572	108358	245.46
594	5311.1	115633	-2433	108842	181.28
606	106.6	112234	-28782	109275	195.27
7	390.4	- 105051	6666	112068	3.41
605	88.0	115988	-26062	112238	193.43
595	700.6	119016	-10231	112663	185.21
425	139.4	-95569	47411	112831	24.85
597	121.0	121940	- 1483	115131	180.74
628	190.1	96446	-72362	115194	218.92
604	78.9	119183	-25756	115279	192.91
596	265.0	123853	-9790	117444	184.78
643	171.5	-112803	31480	123694	14.74
10	181.1	-113970	-38214	126697	342.43
627	193.3	123347	-61335	131685	207.76
4	78.6	-98801	80882	133031	37.44
603	66.4	138672	- 18348	133124	187.92
16	51.0	49616	- 129429	136321	251.70
6	192.2	- 126575	29731	136666	12.57
598	168.7	144747	5683	138046	177.64
602	103.1	145780	-14788	139746	186.07
599	4408.9	148084	4829	141349	178.04
5	195.9	-128325	44547	142296	18.24
3	67.3	-111077	82334	143799	34.93
644	50.4	-133352	36057	144734	14.43
623	74.1	148165	49925	149905	160.55
624	73.6	149046	50534	150938	160.44
601	518.5	159725	3019	152973	178.87
600	52.3	160228	535	153411	179.80
645	281.1	- 147539	35648	158420	13.00
625	340.6	162663	47263	162854	163.13

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY RANGE

		COORDINATES		FROM GZ:	
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
2	219.6	-123266	100058	164114	37.57
646	139.4	- 157246	38657	168557	13.26
626	101.5	175527	6283	168826	177.87
11	206.0	-136402	-94728	171713	326.52
12	141.9	- 132974	-106186	175549	322.78
13	164.9	- 140974	-120698	190815	320.76
15	119.0	- 184455	-61291	200853	342.23
14	173.3	- 187268	-60409	203270	342.71
	289971.2				

2.7 SORTED BY AZIMUTH

The database from Subsection 2.4 was sorted by azimuth from 0 to 360 deg to produce the data presented in this subsection.

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	I GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTII
	(gm)	(mm)	(mm)	(mm)	(deg)
181	88.6	-42267	20	49085	0.02
144	653.1	-27063	150	33881	0.25
153	373.7	-22215	134	29034	0.26
152	131.9.	-26952	221	33771	0.38
221	66.5	- 20458	351	27278	0.74
154	432.8	-18423	358	25244	0.81
418	604.9	-73703	1722	80540	1.23
141	654.7	-23923	707	30749	1.32
176	116.8	-21168	773	27997	1.58
155	180.6	- 18114	1103	24956	2.53
220	104.9	-21390	1257	28236	2.55
7	390.4	-105051	6666	112068	3.41
251	196.4	-15127	1316	21984	3.43
8	1065.7	-88416	6874	95482	4.13
256	120.8	-13017	1434	19886	4.14
252	83.1	-14786	1600	21663	4.23
417	69.2	-66760	6017	73823	4.67
402	269.5	-2801	810	9653	4.81
215	115.2	-24301	2646	31231	4.86
454	99.5	-10041	1607	16935	5.45
455	46.7	-10639	1704	17540	5.57
143	1187.4	-22259	2993	29230	5.88
399	130.6	-6441	1381	13331	5.94
419	254.0	-84781	10143	92159	6.32
398	146.9	-6559	1523	13463	6.50
175	107.3	-20478	3441	27512	7.18
456	44.6	-11752	2460	18732	7.55
401	357.3	-3387	1384	10298	7.72
262	110.7	- 10559	2467	17551	8.08
269	386.2	-4169	1630	11107	8.44
263	128.0	-10319	2571	17329	8.53
400	103.9	-4139	1654	11081	8.58
156	681.1	-18322	3830	25430	8.66
429	83.7	-67991	11561	75697	8.78
261	88.9	-10706	2731	17735	8.86
453	49.5	-7749	2340	14754	9.13
416	198.8	-18619	4160	25775	9.29
254	219.7	-15377	3698	22501	9.46
162	426.7	-6091	2214	13098	9.73
253	142.7	-15230	3801	22373	9.78
216	62.8	-26538	5936	33881	10.09

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
448	58.6	-7414	2571	14462	10.24
174	118.5	-19923	5097	27223	10.79
423	324.1	-70847	15724	79241	11.45
6	192.2	- 126575	2973 i	136666	12.57
645	281.1	- 147539	35648	158420	13.00
646	139.4	-157246	38657	168557	13.26
452	62.1	-7145	3327	14354	13.40
450	60.5	-6357	3153	13547	13.46
264	87.5	-8329	3643	15579	13.53
421	160.2	- 56027	15545	64739	13.89
218	108.8	-32427	9761	40440	13.97
451	89.6	-7022	3501	14276	14.19
422	273.9	-73531	20466	82915	14.29
255	231.1	-13982	5347	21476	14.42
644	50.4	-133352	36057	144734	14.43
643	171.5	-112803	31480	123694	14.74
449	137.2	- 5607	3288	12853	14.82
173	365.7	-18849	8149	26930	17.61
5	195.9	-128325	44547	142296	18.24
217	90.3	-26031	10858	34597	18.29
266	118.2	-5726	4218	13235	18.59
642	89.9	-78326	32074	90985	20.64
447	52.0	-6771	5442	14639	21.83
157	882.3	24597	12709	33889	22.03
446	65.8	-6573	5762	14578	23.28
431	44.5	- 38939	20350	50078	23.98
265	86.9	-4785	5229	12727	24.26
164	211.4	-6341	6075	14494	24.78
425	139.4	-95569	47411	112831	24.85
165	155.5	- 5489	5772	13594	25.13
471	434.8	-2945	4914	10930	26.72
424	394.1	-86938	47729	105206	26.98
163	1258.9	-7598	7456	16230	27.35
445	69.5	-3998	5691	12222	27.75
172	322.6	-18927	13604	29118	27.85
267	212.7	-4403	5949	12701	27.93
426	139.1	-79254	46143	97660	28.20
219	99.1	-23713	16694	34797	28.67
428	112.8	-52538	35008	68911	30.53
427	241.0	-76245	52535	98283	32.31
430	134.4	-33001	26378	47763	33.52

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	I GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
3	67.3	-111077	82334	143799	34.93
4	78.6	~98801	80882	133031	37.44
2	219.6	-123266	100058	164114	37.57
166	510.2	- 5366	9439	15413	37.77
472	117.7	- 1976	7001	11241	38.52
168	699.5	-4420	10749	15551	43.73
444	35.5	-2231	9104	12836	45.18
443	32.4	-2677	9694	13569	45.59
442	48.7	-2353	11485	14698	51.39
167	702.9	-3183	12853	16286	52.11
171	130.7	15734	30242	37725	53.29
441	215.1	-2676	13428	16445	54.74
440	29.0	-3232	15668	18614	57.32
169	290.4	- 5894	23152	26413	61.23
432	109.9	-2827	17753	20204	61.49
474	4490.6	2726	7759	8772	62.19
473	59.4	1127	11095	12469	62.85
170	98.6	- 3994	21275	23865	63.06
435	41.4	-1394	16189	18152	63.10
434	59.7	-3187	20337	22665	63.80
433	96.3	-2390	20698	22654	66.02
439	44.3	-1379	19204	20881	66.88
388	141.4	-2694	22744	24653	67.30
436	43.2	-278	17324	18721	67.73
437	52.0	130	18429	19605	70.05
387	553.2	-2242	25447	27012	70.40
389	3942.7	-62	20897	22001	71.78
390	186.7	- 153	23357	24376	73.38
438	56.7	1393	18406	19189	73.58
534	3020.9	1858	18150	18815	74.71
386	107.5	207	24579	25452	74.95
392	984.5	2384	18668	19187	76.64
395	327.1	-268	29852	30681	76.65
385	422.2	1771	25016	25520	78.59
384	780.2	3643	26305	26496	83.12
394	311.4	5783	14852	14888	86.01
391	1105.0	5262	23815	23866	86.26
393	689.4	5941	16609	16632	86.98
397	269.1	9086	54596	54643	92.38
396	571.8	10549	49472	49612	94.31
610	202.5	26780	23478	30817	130.37

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	I GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
475	116.9	14438	7534	10716	135.32
476	70.4	16712	8257	12887	140.15
28	527.4	27827	13017	24715	148.22
32	108.8	18154	6947	13295	148.50
27	1125.1	28374	12433	24885	150.02
25	70.3	18288	5428	12690	154.67
612	120.7	29007	10028	24350	155.68
22	140.3	17717	4647	11848	156.91
24	79.2	18804	4938	12964	157.61
21	251.5	18188	4510	12231	158.36
508	392.8	40052	12889	35646	158.80
510	70.1	36087	11211	31342	159.04
23	102.4	18484	4386	12464	159.39
624	73.6	149046	50534	150938	160.44
623	74.1	148165	49925	149905	160.55
485	108.0	24346	5897	18494	161.40
620	70.6	29945	7391	24279	162.28
625	340.6	162663	47263	162854	163.13
506	90.1	37159	9030	31657	163.43
26	163.1	21273	4275	15074	163.53
507	128.8	38497	9321	33022	163.60
43	7661.9	34523	7459	28692	164.93
583	215.0	62652	14555	57700	165.39
33	110.5	18815	2961	12357	166.13
582	4525.7	67411	14840	62384	166.24
619	71.9	29286	5500	23131	166.25
29	315.1	21202	3423	14785	166.61
611	139.6	31318	5805	25178	166.67
31	208.4	18773	2721	12261	167.18
57	791.0	32122	5650	25928	167.41
509	139.6	43781	8253	37873	167.41
505	338.6	38632	6623	32496	168.24
564	798.1	45042	7816	39015	168.44
536	298.8	56670	9495	50748	169.22
30	283.4	21023	2684	14456	169.30
382	256.2	27110	3746	20635	169.54
555	79.8	25701	3485	19202	169.54
587	467.1	85444	14027	79868	169.88
586	1124.2	85553	14020	79974	169.90
618	165.9	27923	3601	21410	170.32
588	388.2	86462	13556	80789	170.34

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
543	534.3	46637	6380	40327	170.90
95	799.1	24203	2748	17600	171.02
381	136.0	25003	2873	18410	171.02
380	197.6	23442	2625	16830	171.03
584	1188.5	77608	11089	71653	171.10
55	550.1	32144	3929	25629	171.18
589	209.1	89979	12699	84125	171.32
497	125.5	35398	4341	28908	171.36
98	200.1	33024	3871	26490	171.60
533	127.0	46776	5861	40385	171.66
535	154.3	53425	6756	47095	171.75
496	197.3	35104	4027	28572	171.90
504	367.5	41665	4800	35176	172.16
565	619.0	48359	5719	41933	172.16
44	2079.4	34175	3677	27603	172.34
56	816.9	35737	3732	29159	172.65
96	3575.4	19236	1545	12514	172.91
531	178.3	52207	5443	45714	173.16
64	671.2	40109	3866	33515	173.38
532	413.4	53055	5328	46543	173.43
530	173.6	51655	4862	45100	173.81
373	217.9	31830	2682	25156	173.88
58	461.5	34896	2965	28234	173.97
503	151.1	40778	3558	34146	174.02
502	251.7	41152	3567	34519	174.07
480	100.1	22899	1670	16167	174.07
59	1240.6	39676	3388	33032	174.11
566	153.4	47470	4159	40864	174.16
383	153.7	22126	1515	15383	174.35
379	166.3	23019	1508	16271	174.68
538	143.5	53763	4266	47138	174.81
537	224.3	53210	4206	46582	174.82
512	231.0	43363	3281	36692	174.87
513	122.8	44036	3269	37361	174.98
374	375.6	29241	1908	22504	175.14
97	353.9	35171	2334	28449	175.29
550	101.0	33625	2186	26896	175.34
641	76.8	78019	5752	71433	175.38
549	106.2	34663	2241	27935	175.40
585	693.0	73699	5336	67094	175.44
553	184.2	30282	1748	23529	175.74

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)_	(deg)
551	117.4	33104	1958	26359	175.74
498	128.6	36242	2177	29505	175.77
552	78.0	32229	1875	25481	175.78
63	1190.6	43045	2610	36321	175.88
563	161.3	43074	2553	36346	175.97
622	89.8	112002	7404	105444	175.97
511	139.1	42087	2376	35349	176.15
94	3082.6	20960	948	14174	176.16
499	116.7	37950	2074	31201	176.19
495	167.1	36740	1952	29985	176.27
99	175.3	26982	1294	20206	176.33
42	527.7	59895	3403	53186	176.33
371	428.6	34901	1733	28136	176.47
500	161.7	38898	1906	32137	176.60
482	109.8	23594	984	16805	176.64
478	86.1	21065	827	14271	176.68
477	143.2	20686	801	13892	176.69
45	2558.6	31093	1323	24311	176.88
554	158.8	26874	1051	20083	177.00
567	154.5	48585	2184	41824	177.01
377	239.8	25085	955	18291	177.01
50	1467.6	33932	1407	27150	177.03
46	1776.2	30756	1241	23970	177.03
524	198.6	41269	1764	34496	177.07
61	1270.7	51540	2268	44780	177.10
514	127.1	44266	1812	37491	177.23
581	229.2	62924	2690	56170	177.25
539	112.0	53800	2112	47030	177.43
501	140.1	38239	1397	31452	177.45
548	126.6	37243	1352	30455	177.45
375	234.9	33504	1129	26710	177.58
598	168.7	144747	5683	138046	177.64
376	120.9	33222	1046	26425	177.73
626	101.5	175527	6283	168826	177.87
568	117.4	48702	1525	41912	177.91
621	113.7	37639	1095	30841	177.97
599	4408.9	148084	4829	141349	178.04
614	103.1	34369	859	27564	178.21
51	1840.9	35653	882	28849	178.25
372	205.1	34427	799	27621	178.34
529	181.6	54944	1391	48146	178.34

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD		FROM	I GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
528	181.2	55043	1346	48244	178.40
481	96.0	24215	404	17401	178.67
494	134.9	34991	595	28179	178.79
41	3845.2	62634	1103	55827	178.87
601	518.5	159725	3019	152973	178.87
590	6137.4	87194	1410	80389	178.99
615	81.0	33052	451	26238	179.01
378	165.4	24848	306	18033	179.03
62	1719.5	45058	557	38244	179.17
617	113.9	27520	236	20703	179.35
523	160.4	40253	355	33437	179.39
593	376.1	104289	483	97473	179.72
479	131.7	21353	56	14535	179.78
600	52.3	160228	535	153411	179.80
516	81.1	44468	-69	37650	180.10
54	388.7	34740	-150	27923	180.31
541	339.3	59860	-307	53043	180.33
60	1624.6	56631	-435	49815	180.50
579	3 ∠1.2	71524	-683	64710	180.60
616	99.6	31283	-291	24467	180.68
597	121.0	121940	-1483	115131	180.74
65	260.2	33733	-400	26918	180.85
515	150.5	44712	-629	37899	180.95
483	117.9	24303	-302	17488	180.99
53	885.0	33724	-505	26911	181.08
594	5311.1	115633	-2433	108842	181.28
578	275.8	70423	-1443	63621	181.30
574	123.1	61169	-1239	54365	181.31
580	1723.2	72407	-1864	65615	181.63
527	356.8	54098	-1645	47309	181.99
109	355.6	46725	-1416	39932	182.03
100	482.3	24886	-706	18082	182.24
52	1820.4	34520	-1095	27723	182.26
556	142.9	31495	-1017	24698	182.36
520	200.7	38782	-1419	31995	182.54
525	370.6	51419	-1987	44645	182.55
517	230.5	46524	-1893	39751	182.73
519	826.6	38830	-1541	32050	182.76
557	171.9	31877	-1220	25088	182.79
493	115.0	34385	-1347	27600	182.80
592	650.0	102595	-4782	95896	182.86

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
573	113.7	61174	-2741	54425	182.89
613	119.1	33289	-1375	26506	182.97
492	143.7	34402	- 1505	27625	183.12
522	275.8	39059	- 1825	32293	183.24
636	190.3	91919	-5827	85300	183.92
521	695.1	38889	-2232	32148	183.98
577	99.1	66292	-4249	59625	184.09
591	404.7	92780	-6204	86185	184.13
526	317.5	52701	-3536	46019	184.41
93	831.8	21425	-1136	14651	184.45
561	72.2	44152	-3040	37458	184.66
562	324.2	44469	-3109	37779	184.72
596	265.0	123853	-9790	117444	184.78
637	97.2	113372	-9088	106941	184.87
108	1143.4	42317	-3070	35631	184.94
40	11893.2	54836	-4186	48200	184.98
638	1153.7	113217	-9345	106809	185.02
595	700.6	119016	-10231	112663	185.21
560	517.1	43836	-3598	37192	185.55
106	976.2	38481	-3271	31832	185.90
540	111.0	53061	-4802	46492	185.93
602	103.1	145780	-14788	139746	186.07
92	666.0	21549	- 1591	14817	186.16
89	1108.5	22184	-1705	15460	186.33
575	793.8	64743	-6454	58284	186.36
569	137.4	49361	-5142	42853	186.89
576	226.0	66516	-7224	60134	186.90
518	137.7	45448	-4727	38918	186.98
639	451.1	111426	-13341	105455	187.27
559	62.7	43564	-4817	37060	187.47
107	353.3	40156	-4451	33634	187.61
542	307.7	62675	<i>−7754</i>	56393	187.90
603	66.4	138672	- 18348	133124	187.92
484	155.2	27565	-2902	20949	187.96
105	290.7	37411	-4287	30892	187.98
73	272.1	50558	-6152	44171	188.01
490	90.0	30931	-3510	24367	188.28
365	174.5	20566	-2104	13908	188.70
558	316.3	42884	-5569	36493	188.78
66	580.1	33619	-4264	27138	189.04
367	141.2	24725	-2864	18134	189.09

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
91	637.8	20748	-2272	14114	189.26
71	388.6	42498	-6081	36195	189.67
366	132.7	25718	-3222	19172	189.67
571	185.8	51104	-7596	44933	189.73
370	584.8	28470	-3756	21976	189.84
547	127.4	60540	-9411	54540	189.94
88	251.6	23658	-2983	17102	190.04
572	131.7	55112	-8799	49089	190.33
491	207.7	35460	-5348	29137	190.58
369	329.0	27337	-3878	20882	190.70
69	225.6	39317	-6152	33077	190.72
570	230.9	50405	-8390	44387	190.89
546	293.4	58775	-10065	52923	190.96
544	319.4	58988	-10113	53141	190.97
545	215.5	58820	-10171	52987	191.07
70	255.6	39808	-6469	33619	191.09
368	135.8	23329	-3258	16830	191.16
487	139.5	31606	-4897	25267	191.18
67	174.6	34932	-5732	28692	191.52
486	162.6	28335	-4411	21965	191.58
633	326.2	64662	-12076	59092	191.79
90	1085.1	21228	-3070	14733	192.03
72	660.8	45098	-8286	39167	192.21
635	144.1	80409	- 16088	75329	192.33
640	88.8	98124	-20639	93609	192.74
634	129.9	77741	-16092	72725	192.78
604	78.9	119183	-25756	115279	192.91
605	88.0	115988	-26062	112238	193.43
102	182.3	22210	-3707	15832	193.54
68	392.9	38334	-7604	32420	193.56
101	416.2	20980	-3639	14622	194.41
489	103.9	31306	-6294	25284	194.41
488	113.9	32449	-6821	26523	194.90
606	106.6	112234	-28782	109275	195.27
74	766.8	48573	-11539	43321	195.45
48	433.5	26596	-6152	20713	197.28
82	314.2	31738	-7909	26145	197.61
49	961.8	22796	-5106	16774	197.72
364	230.1	20028	-4262	13880	197.88
104	192.7	28117	-7253	22500	198.80
87	439.8	24333	-6219	18587	199.55

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)_	(deg)
75	603.1	45674	-14000	41301	199.81
83	1319.2	27715	-7536	22214	199.83
85	1101.2	27727	-8081	22416	201.13
79	685.6	41979	-13636	37713	201.20
47	5376.3	33965	-10736	29192	201.58
77	814.5	51433	- 17959	48094	201.93
80	243.1	37509	- 12423	33110	202.04
84	1548.1	27465	-8472	22317	202.31
76	720.7	48455	- 17620	45212	202.94
81	523.7	31988	-11069	27496	203.74
103	1404.9	19369	-5813	13832	204.85
78	189.6	50479	-20494	48232	205.15
632	319.9	55661	-25656	55171	207.71
627	193.3	123347	-61335	131685	207.76
110	319.2	37838	-16625	35194	<u>208</u> .19
86	981.8	23071	-9121	18637	209.30
120	216.9	85515	-52611	94663	213.76
111	677.6	32628	- 17952	31440	214.82
119	619.8	79924	-51045	89163	214.92
628	190.1	96446	-72362	115194	218.92
630	69.0	76582	-56624	89851	219.06
20	1164.4	68347	-50572	79646	219.42
631	145.5	60159	-45067	69831	220.19
629	414.0	82501	-65424	100041	220.84
114	497.8	46877	-40053	56648	225.00
116	231.1	52530	-46784	65409	225.66
360	231.5	14025	-8441	11099	229.51
115	172.7	46041	-45954	60417	229.52
112	150.7	37597	-36695	47894	230.01
113	176.7	39135	-38927	50593	230.30
363	169.5	19828	-15723	20408	230.39
19	199.7	57974	-70039	86731	233.86
361	183.1	15224	-12043	14686	235.09
362	178.6	14124	-12992	14905	240.65
357	148.2	12958	-11858	13354	242.63
17	96.1	51817	-98572	108358	245.46
18	391.2	38150	-84270	89906	249.60
359	162.1	10170	-9732	10293	250.99
358	267.1	10027	-9685	10203	251.67
16	51.0	49616	-129429	136321	251.70
117	694.8	26044	-62264	65164	252.84

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
118	751.2	24153	-60944	63362	254.12
350	297.6	9415	-10718	11028	256.38
349	691.4	9054	-9933	10182	257.31
351	194.2	9161	-12689	12903	259.54
126	217.2	10660	-22178	22508	260.17
352	214.3	8789	-12745	12897	261.21
341	495.9	8373	-10072	10191	261.22
348	205.0	8459	-10805	10928	261.37
353	5669.9	8941	-23849	23944	264.91
346	702.6	7535	- 10906	10930	266.24
345	154.6	7405	-11425	11440	267.06
342	288.4	7346	-11454	11466	267.36
344	1354.5	7268	- 12013	12022	267.86
343	224.6	7004	-11092	11093	269.04
125	689.0	6830	-25111	25111	269.97
354	120.2	6280	-26483	26488	271.16
355	127.5	6178	-26764	26772	271.37
339	268.1	6578	-8351	8355	271.64
356	190.7	6029	-24496	24508	271.85
124	502.6	5588	-32056	32079	272.20
338	98.2	6388	-9052	9062	272.72
123	2231.7	5082	-30731	30780	273.23
347	183.8	6144	-10634	10655	273.63
340	272.4	6257	-7813	7833	274.11
332	741.9	5065	-22977	23044	274.36
313	220.5	3764	-36494	36621	274.78
122	1061.4	4128	-28994	29118	275.30
337	156.7	5875	-9656	9702	275.58
312	281.5	3081	-32908	33119	276.48
328	207.0	4334	-21714	21856	276.53
325	125.9	4315	-21375	21521	276.68
326	651.4	4072	-20936	21115	277.47
333	158.2	5045	-12703	12827	277.94
319	156.2	3099	-26004	26269	278.14
322	386.6	3594	-22303	22535	278.22
121	7248.4	2834	-26827	27121	278.45
323	127.2	3247	-23377	23649	278.68
314	152.8	2594	-25151	25503	279.53
320	274.9	2882	-23092	23425	279.67
321	450.4	2833	-22765	23111	279.93
334	220.9	4627	-12216	12411	280.17

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
<u> </u>	(gm)	(mm)	(mm)	(mm)	(deg)
318	124.4	1548	-24867	25419	281.97
311	2036.6	145	-31009	31719	282.14
317	298.8	1584	-23235	23817	282.69
310	243.4	-1328	- 34094	35054	283.44
315	231.8	384	-26906	27664	283.45
316	403.6	1224	-23392	24052	283.45
331	306.2	3341	-13343	13789	284.61
128	829.9	1177	-21125	21865	284.95
309	191.0	- 1290	-30302	31368	284.98
330	181.6	2994	-13173	13717	286.19
303	142.6	118	-22978	23934	286.26
304	125.5	-24	-23399	24379	286.30
329	264.8	2884	-13430	13994	286.32
308	1145.9	-1881	-29577	30830	286.39
305	449.1	-302	-23285	24349	287.00
336	129.8	3808	-9586	10047	287.43
302	124.4	-457	-22852	23982	287.66
335	1112.6	3818	-9395	9862	287.71
301	275.4	- 584	-23071	24230	287.79
300	755.4	-828	-22399	23668	288.85
307	299.5	-2786	-26880	28544	289.66
306	2372.3	-2074	-23100	24752	291.05
299	609.5	-1713	-21825	23433	291.35
127	518.4	-1542	- 18693	20477	294.10
298	245.6	-3041	-20873	23084	295.28
235	105.5	-6663	-25237	28612	298.11
233	75.5	-8679	-24191	28729	302.64
297	73.1	-6543	-19882	23955	303.90
234	102.8	-8508	-21452	26364	305.54
271	190.8	-7559	-18547	23467	307.78
272	147.9	-7115	-17891	22676	307.91
232	416.9	-12358	-23722	30503	308.95
296	105.3	-6122	-15745	20380	309.41
236	101.8	-9613	-18471	24722	311.66
130	3978.0	-5527	-13222	18089	313.04
231	278.5	-12802	- 19787	27866	314.76
202	60.5	-16498	-22414	32342	316.13
237	403.1	-12662	-17454	26156	318.14
192	274.2	-28210	-31255 17268	46945	318.26
238	179.2	-13384 7040	-17268	26577	319.48
274	163.0	-7049	-11689	18136	319.87

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
191	757.6	-46092	-44150	68910	320.16
203	289.3	-17095	- 19729	31001	320.48
13	164.9	- 140974	- 120698	190815	320.76
273	184.5	-7485	-11611	18423	320.93
240	176.4	- 14440	-16316	26797	322.49
12	141.9	- 132974	-106186	175549	322.78
131	354.0	- 10098	- 12430	20992	323.69
275	181.0	-8036	- 10752	18337	324.10
230	124.4	-16144	- 15778	27860	325.51
246	71.8	-12715	-13150	23547	326.05
190	297.9	-53241	-40112	72222	326.26
11	206.0	-136402	-94728	171713	326.52
292	435.0	-5377	-7678	14411	327.81
413	224.5	-5380	-7642	14394	327.93
414	232.5	-2832	5986	11356	328.19
194	198.2	-23489	-18142	35322	329.10
204	173.8	- 19520	-15528	30575	329.48
193	108.6	-24719	-18571	36599	329.51
205	118.7	- 18495	-14902	29373	329.51
229	818.0	-16522	-13706	27067	329.58
189	63 9	-54532	-35415	70838	330.00
412	111.9	-6957	- <i>77</i> 98	15829	330.48
241	55.5	-15559	-12510	25637	330.79
294	383.0	-6904	-7562	15667	331.14
411	270.5	-6884	-7517	15629	331.25
415	319.1	-3166	-5244	11277	332.29
295	131.9	-7026	-7260	15632	332.33
290	360.1	-5312	-6072	13565	333.41
195	529.5	-30158	-18122	41178	333.89
206	64.6	-21040	-13468	30943	334.20
276	595.2	-9348	-7762	17933	334.35
228	171.8	-16594	-11215	25959	334.40
245	58.6	-15743	-10550	24906	334.94
208	225.0	-19408	-11729	28729	335.90
289	287.0	-5310	-5361	13260	336.15
279	430.5	-7908	-6432	16070	336.40
277	118.8	-10682	-7300	18962	337.36
187	153.1	-58292	-26688	70367	337.71
464	212.9	-4386	-4543	12090	337.93
201	97.9	-35025	- 16597	45014	338.36
186	261.5	-41156	-18901	51563	338.50

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
280	182.3	-7374	-5525	15230	338.73
278	107.4	-8545	-5783	16415	339.37
465	185.4	-3290	-3794	10797	339.43
244	98.8	- 14846	-7825	23034	340.14
209	109.6	-19311	-9005	27637	340.98
200	188.4	-38160	- 15487	47570	341.00
185	81.5	~45790	-18066	55624	341.05
466	89.6	-3135	-3415	10522	341.06
184	197.9	-45805	- 18053	55634	341.07
132	971.3	-7959	~4869	15558	341.76
243	99.7	-16735	-7581	24743	342.16
15	119.0	- 184455	-61291	200853	342.23
10	181.1	-113970	-38244	126697	342.43
210	141.4	-20336	-8478	28447	342.66
14	173.3	- 187268	-60409	203270	342.71
227	264.7	~ 17720	-7442	25642	343.13
207	112.5	-21810	-8596	29891	343.29
211	82.6	-21386	-8285	29395	343.63
196	108.0	-28502	-10187	36760	343.91
282	91.6	-9275	-4532	16719	344.27
283	105.6	-8606	-4332	16021	344.31
468	180.9	-3407	-2861	10618	344.37
410	720.4	-10623	-4860	18106	344.43
147	661.2	-32728	-10430	40898	345.23
183	191.8	-45952	-13318	54424	345.84
9	80.8	-73463	-20014	82739	346.00
134	514.9	-10061	-4047	17357	346.52
286	159.4	-6148	-3052	13320	346.76
407	199.1	- 10490	-4024	17770	346.91
226	106.0	-19014	-5989	26517	346.95
242	202.3	-17433	-5251	24813	347.78
288	74.4	-5996	-2740	13104	347.93
408	129.0	- 10266	-3641	17467	347.97
146	306.2	-27633	-7336	35224	347.98
287	178.1	-5799	-2675	12897	348.03
136	297.7	-16077	-4839	23401	348.07
284	65.0	-7074	-2897	14191	348.22
420	145.1	-61871	-14311	70164	348.23
182	131.8	-41535	- 10056	49388	348.25
198	135.8	-32708	-8133	40354	348.37
248	188.4	-13822	-4198	21062	348.50

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORD	INATES	FROM	GZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
	(gm)	(mm)	(mm)	(mm)	(deg)
463	102.4	-4613	-2311	11662	348.57
199	92.4	-37671	-8990	45388	348.58
469	159.8	-3118	-2007	10137	348.58
285	80.7	-6836	-2730	13925	348.69
247	498.5	- 10483	-3366	17625	348.99
409	252.6	-11450	-3495	18599	349.17
133	533.6	-9310	-3043	16412	349.31
212	64.2	-22492	-5192	29766	349.95
197	84.0	-27739	<i>−5</i> 845	35048	350.40
135	4676.5	-14873	-3372	21952	351.16
148	699.9	-33140	-5815	40379	351.72
405	168.9	-9091	-2206	16062	352.10
179	125.5	-41082	-6563	48347	352.20
137	868.9	- 19273	-3485	26322	352.39
161	441.0	-3793	-1316	10693	352.93
225	61.0	-21378	-3446	28406	353.03
178	666.1	-44426	-6050	51600	353.27
406	127.5	-9587	– 1765	16500	353.86
177	340.0	-40767	-4831	47830	354.20
213	77.8	-25714	-2797	32652	355.09
461	99.3	-6669	-1116	13533	355.27
159	429.9	-7512	-1128	14374	355.50
158	2907.5	-13782	- 1598	20662	355.56
460	92.7	-6393	-934	13244	355.96
249	163.4	-14505	-1491	21375	356.00
258	137.9	-14500	-1448	21367	356.11
223	124.7	-22666	- 1967	29550	356.18
150	169.7	-32562	-2606	39467	356.21
151	133.7	-30656	-2458	37554	356.25
224	57.5	-22956	- 1912	29836	356.33
404	121.5	-6979	-845	13823	356.49
403	282.6	-4991	-713	11830	356.54
459	78.2	-9490	-763	16326	357.32
259	93.2	-11777	-821	18613	357.47
462	104.3	-5545	-532	12375	357.54
270	498.6	-3037	-375	9862	357.82
470	143.7	-4066	-380	10891	358.00
160	3869.1	-5604	-432	12430	358.01
145	323.4	-28632	-874	35460	358.59
214	45.2	-25445	-765	32272	358.64
458	75.1	-10413	-403	17236	358.66

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY AZIMUTH

		COORDI	NATES	FROM	IGZ:
I.D. MARK	WEIGHT	X	Y	RANGE	AZIMUTH
1	(gm)	(mm)	(mm)	(mm)	(deg)
457	66.5	-10263	-376	17085	358.74
222	162.7	-22841	-519	29663	359.00
142	430.4	-24421	-482	31242	359.12
257	130.0	-14165	-251	20984	359.31
250	139.4	-15146	-230	21965	359.40
138	782.4	-22856	-245	29675	359.53
180	698.9	-40780	-319	47599	359.62
260	88.0	-11401	59	18219	359.82
Ī	289971.2				·

2.8. SORTED BY COLOR

The weight, color, and location information of each piece of PAS-3 debris collected in the circular collection area was first combined into a single database. The database was then sorted by color of concrete.

Color Code:

R = Red

Y = Yellow

B = Black

G = Green

N = Natural (Gray)

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

		COLOR	R	COORDINATES	INATES	FROMGZ	GZ:
I.D. MARK	WEIGHT	CONCRETE	BEAD	×	Υ	RANGE	AZIMUTH
	(gm)			(mm)	(mm)	(mm)	(mm)
172	322.6	В		-18927	13604	29118	27.85
182	131.8	В		-41535	-10056	49388	348.25
231	278.5	В		-12802	-19787	27866	314.76
285	80.7	В		-6836	-2730	13925	348.69
333	158.2	8	>	5045	-12703	12827	277.94
346	702.6	B		7535	-10906	10930	266.24
349	691.4	B	В	9054	9933	10182	257.31
357	148.2	Ø		12958	-11858	13354	242.63
448	58.6	B	·	-7414	2571	14462	10.24
461	99.3	В		6999-	-1116	13533	355.27
113	176.7	B/R	×	39135	-38927	50593	230.30
154	432.8	B/R		-18423	358	25244	0.81
225	61.0	B/R		-21378	-3446	28406	353.03
234	102.8	B/R	ڻ	-8508	-21452	26364	305.54
297	73.1	B/R		-6543	-19882	23955	303.90
424	394.1	B/R	-	-86938	47729	105206	26.98
426	139.1	B/R		-79254	46143	09926	28.20
627	193.3	B/R	ď	123347	-61335	131685	207.76
11	206.0	B/Y		-136402	-94728	171713	326.52
420	145.1	G		-61871	-14311	70164	348.23
6	80.8	Z		-73463	-20014	82739	346.00
21	251.5	Z		18188	4510	12231	158.36
22	140.3	Z.		17717	4647	11848	156.91
23	102.4	Z		18484	4386	12464	159.39
24	79.2	Z.		18804	4938	12964	157.61
56	163.1	Z		21273	4275	15074	163.53
29	315.1	Z		21202	3423	14785	19991
30	283.4	Z		21023	2684	14456	169.30

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

FROM GZ:	RANGE AZIMUTH	(mm) (mm)	12261 167.18	13295 148.50	12357 166.13	53186 176.33		16774 197.72									,		_	44780 177.10			_	_		32420 193.56			
COORDINATES	Y	(mm)	2721	6947	2961	3403	1241	-5106	1407	882	-1095	-505	-150	3929	3732	5650	2965	3388	-435	2268	557	2610	3866	400	-4264	-7604	-6469	-6081	
COORD	×	(mm)	18773	18154	18815	59895	30756	22796	33932	35653	34520	33724	34740	32144	35737	32122	34896	39676	56631	51540	45058	43045	40109	33733	33619	38334	39808	42498	
R	BEAD																												
COLOR	CONCRETE		Z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	z	Z	z	z	z	z	z	z	z	
	WFIGHT	(gm)	208.4	108.8	110.5	527.7	1776.2	961.8	1467.6	1840.9	1820.4	885.0	388.7	550.1	816.9	791.0	461.5	1240.6	1624.6	1270.7	1719.5	1190.6	671.2	260.2	580.1	392.9	255.6	388.6	
	I.D. MARK			2	5	2	91	61	20	51	52	53	54	55	99	57	58	59	09	61	62	63	64	65	99	89	70	71	-

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

FROM GZ:	E AZIMUTH	(mm)	195.45	199.81	202.94	201.93	205.15	201.20	202.04	203.74	209.30	199.55	190.04	186.33	192.03	186.16	184.45	176.16	_		175.29	171.60	176.33	182.24	194.41	193.54	204.85	187.98	185.90	
FRC	RANGE	(mm)	43321	41301	45212	48094	48232	37713	33110	27496	18637	18587	17102	15460	14733	14817	14651	14174	17600	12514	28449	26490	20206	18082	14622	15832	13832	30892	31832	
COORDINATES	X	(min)	-11539	-14000	-17620	-17959	-20494	-13636	-12423	-11069	-9121	-6219	-2983	-1705	-3070	-1591	-1136	948	2748	1545	2334	3871	1294	90/-	-3639	-3707	-5813	-4287	-3271	
COORE	×	(mm)	48573	42674	48455	51433	50479	41979	37509	31988	23071	24333	23658	22184	11228	21549	21425	20960	24203	19236	35171	33024	26982	24886	20980	22210	19369	37411	38481	
OR	E BEAD																													_
COLOR	CONCRETE		Z	Z	z	z	z	z	Z	Z	Z	z	Z	z	z	z	z	Z	Z	Z	Z	z	z	Z	Z	Z	Z	Z	z	
	WEIGHT	(mg)	2992	603.1	720.7	814.5	189.6	685.6	243.1	523.7	981.8	439.8	251.6	1108.5	1085.1	0.999	831.8	3082.6	799.1	3575.4	353.9	200.1	175.3	482.3	416.2	182.3	1404.9	290.7	976.2	
	I.D. MARK		74	75	92	77	78	62	80	81	98	87	88	68	06	92	93	94	95	96	97	86	66	100	101	102	103	105	106	

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

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PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

GZ:	AZIMUTH	(mm)	329.10	350.40	348.37	329.48	343.63	4.86	2.55	329.58	325.51	347.78	342.16	348.99	348.50	3.43	9.78	357.82	324.10	348.03	336.15	333.41	327.81	309.41	230.39	197.88	188.70	189.67	189.09	190.70
FROMGZ	RANGE	(mm)	35322	35048	40354	30575	29395	31231	28236	27067	27860	24813	24743	17625	21062	21984	22373	3862	18337	12897	13260	13565	14411	20380	20408	13880	13908	19172	18134	20882
NATES	>	(mm)	-18142	-5845	-8133	-15528	-8285	2646	1257	-13706	-15778	-5251	-7581	-3366	-4198	1316	3801	-375	-10752	-2675	-5361	-6072	-7678	-15745	-15723	-4262	-2104	-3222	-2864	-3878
COORDINATES	×	(mm)	-23489	-27739	-32708	-19520	-21386	-24301	-21390	-16522	-16144	-17433	-16735	-10483	-13822	-15127	-15230	-3037	-8036	- 5799	-5310	-5312	-5377	-6122	19828	20028	20566	25718	2.4725	70012
JR.	BEAD						-								=		==													
COLOR	CONCRETE		Z	Z	Z	Z	z	z	Z	Z	Z	Z	Z	Z	z	Z	Z	Z	Z	Z	Z	Z	Z	z	Z	Z	Z	Z	Z	z
	WEIGHT	(gm) ·	198.2	84.0	135.8	173.8	82.6	115.2	104.9	818.0	124.4	202.3	7.66	498.5	188.4	196.4	142.7	498.6	181.0	178.1	287.0	360.1	435.0	105.3	169.5	230.1	174.5	132.7	141.2	329.0
	I.D. MARK		194	197	198	204	211	215	220	229	230	242	243	247	248	251	253	270	275	287	289	290	262	296	363	364	365	366	367	369

PAS~3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

		COLOR	R	COORDINATES	NATES	FROMGZ	GZ:
I.D. MARK	WEIGHT	CONCRETE	BEAD	×	Y	RANGE	AZIMUTH
	(gm)			(mm)	(mm)	(mm)	(mm)
371	428.6	z		34901	1733	28136	176.47
372	205.1	z		34427	466	27621	178.34
373	217.9	z		31830	2682	25156	173.88
375	234.9	z		33504	1129	26710	177.58
376	120.9	Z		33222	1046	26425	177.73
377	239.8	z		25085	955	18291	177.01
378	165.4	z		24848	306	18033	179.03
379	166.3	z	-	23019	1508	16271	174.68
380	197.6	z		23442	2625	16830	171.03
382	256.2	z		27110	3746	20635	169.54
383	153.7	z		22126	1515	15383	174.35
394	311.4	z		5783	14852	14888	86.01
403	282.6	z	E.=	-4991	-713	11830	356.54
410	720.4	z	-	-10623	-4860	18106	344.43
413	224.5	z		-5380	-7642	14394	327.93
423	324.1	z		- 70847	15724	79241	11.45
431	44.5	z	==	-38939	20350	20078	23.98
451	9.68	z	=_ =	-7022	3501	14276	14.19
454	99.5	z		-10041	1607	16935	5.45
465	185.4	z		-3290	-3794	10797	339.43
468	180.9	z		-3407	-2861	10618	344.37
476	70.4	z		16712	8257	12887	140.15
477	143.2	z		20686	801	13892	176.69
478	86.1	z		21065	827	14271	176.68
479	131.7	z		21353	92	14535	179.78
480	100.1	z		52899	1670	16167	174.07
481	0.96	z		24215	404	17401	178.67
482	109.8	z		23594	984	16805	176.64

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

GZ:	AZIMUTH	(mm)	180.99	161.40	191.58	191.18	194.90	194.41	188.28	182.80	178.79	176.27	171.90	171.36	175.77	176.19	177.45	174.07	174.02	172.16	168.24	163.60	167.41	159.04	176.15	174.87	174.98	177.23	180.95	180 10
FROM GZ	RANGE	(mm)	17488	18494	21965	25267	26523	25284	24367	27600	28179	29985	28572	28908	29505	31201	31452	34519	34146	35176	32496	33022	37873	31342	35349	36692	37361	37491	37899	37650
NATES	¥	(mm)	-302	5897	-4411	-4897	-6821	-6294	-3510	-1347	595	1952	4027	4341	2177	2074	1397	3567	3558	4800	6623	9321	8253	11211	2376	3281	3269	1812	-629	69-
COORDINATES	×	(mm)	24303	24346	28335	31606	32449	31306	30931	34385	34991	36740	35104	35398	36242	37950	38239	41152	40778	41665	38632	38497	43781	36087	42087	43363	44036	44266	44712	44468
JR	BEAD														-															
COLOR	CONCRETE		Z	Z	Z	Z	z	z	Z	z	Z	Z	z	z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
	WEIGHT	(gm)	117.9	108.0	162.6	139.5	113.9	103.9	0.06	115.0	134.9	167.1	197.3	125.5	128.6	116.7	140.1	251.7	151.1	367.5	338.6	128.8	139.6	70.1	139.1	231.0	122.8	127.1	150.5	81.1
	I.D. MARK		483	485	486	487	488	489	490	493	464	495	496	497	498	499	501	502	503	504	505	207	509	510	511	512	513	514	515	516

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

GZ:	AZIMUTH	(mm)	182.73	186.98	182.76	182.54	183.98	183.24	179.39	177.07	182.55	184.41	178.40	178.34	173.81	173.16	173.43	171.75	174.82	174.81	177.43	185.93	180.33	187.90	170.90	190.97	191.07	190.96	189.94	175.40
FROM GZ	RANGE	(mm)	39751	38918	32050	31995	32148	32293	33437	34496	44645	46019	48244	48146	45100	45714	46543	47095	46582	47138	47030	46492	53043	56393	40327	53141	52987	52923	54540	27935
NATES	Y	(mm)	- 1893	-4727	-1541	-1419	-2232	-1825	355	1764	- 1987	-3536	1346	1391	4862	5443	5328	6756	4206	4266	2112	-4802	-307	-7754	6380	-10113	-10171	-10065	-9411	2241
COORDINATES	×	(mm)	46524	45448	38830	38782	38889	39059	40253	41269	51419	52701	55043	54944	51655	52207	53055	53425	53210	53763	53800	53061	29860	62675	46637	58988	58820	58775	60540	34663
)R	BEAD			===												==														
COLOR	CONCRETE		Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
	WEIGHT	(gm)	230.5	137.7	826.6	200.7	695.1	275.8	160.4	198.6	370.6	317.5	181.2	181.6	173.6	178.3	413.4	154.3	224.3	143.5	112.0	111.0	339.3	307.7	534.3	319.4	215.5	293.4	127.4	106.2
	I.D. MARK		517	518	519	520	521	522	523	524	525	526	528	529	530	531	532	535	537	538	539	540	541	542	543	544	545	546	547	549

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

GZ:	AZIMUTH	(mm)	175.34	175.74	175.78	175.74	177.00	169.54	182.36	182.79	187.47	184.72	175.97	174.16	177.91	186.89	190.89	189.73	190.33	182.89	186.36	186.90	184.09	181.30	180.60	181.63	177.25	171.10	175.44	184.13
FROM GZ	RANGE	(mm)	26896	26359	25481	23529	20083	19202	24698	25088	37060	37779	36346	40864	41912	42853	44387	44933	49089	54425	58284	60134	59625	63621	64710	65615	56170	71653	67094	86185
NATES	¥	(mm)	2186	1958	1875	1748	1051	3485	-1017	-1220	-4817	-3109	2553	4159	1525	-5142	-8390	-7596	-8799	-2741	-6454	-7224	-4249	-1443	-683	-1864	2690	11089	5336	-6204
COORDINATES	×	(mm)	33625	33104	32229	30282	26874	25701	31495	31877	43564	44469	43074	47470	48702	49361	50405	51104	55112	61174	64743	66516	66292	70423	71524	72407	62924	20977	73699	92780
R	BEAD									=					===												*			
COLOR	CONCRETE		Z	z	Z	z	z	Z	Z	Z	Z	z	Z	Z	Z	Z	z	z	Z	z	Z	Z	Z	z	Z	Z	Z	Z	Z	Z
	WEIGHT	(gm)	101.0	117.4	78.0	184.2	158.8	79.8	142.9	171.9	62.7	324.2	161.3	153.4	117.4	137.4	230.9	185.8	131.7	113.7	793.8	226.0	99.1	275.8	321.2	1723.2	229.2	1188.5	693.0	404.7
	I.D. MARK		0	_	7	33	4	5	 9.		66	52	53	<u>,</u>	88	69	2	71	2	73	75	9,	77	8/	6/	<u>~</u>	31	4	 	591

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

Thula/	COLOR	BEAD	COORDINATES	NATES	FROM GZ	GZ:
		EAU	х (шш)	Y (mm)	KAINGE (mm)	AZIMUIH (mm)
Z	-	-	102595	-4782	95896	182.86
Z			119016	-10231	112663	185.21
Z			123853	-9790	117444	184.78
Z		-	144747	5683	138046	177.64
Z			148084	4829	141349	178.04
Z		 -	160228	535	153411	179.80
Z			159725	3019	152973	178.87
Z			145780	-14788	139746	186.07
Z		-	138672	-18348	133124	187.92
Z			115988	-26062	112238	193.43
Z		==	112234	-28782	109275	195.27
Z		==	31318	5805	25178	166.67
Z		-	29007	10028	24350	155.68
Z			34369	829	27564	178.21
Z			33052	451	26238	179.01
Z		-	27520	236	20703	179.35
Z		===	29286	5500	23131	166.25
Z			29945	7391	24279	162.28
Z		==:	37639	1095	30841	177.97
Z			112002	7404	105444	175.97
Z	:		162663	47263	162854	163.13
Z			175527	6283	168826	177.87
Z			55661	-25656	55171	207.71
Z			64662	-12076	59092	191.79
z		-	91919	-5827	85300	183.92
Z			113372	8806-	106941	184.87
Z	_		113217	-9345	106809	185.02
Z			\C1			

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

FROM GZ:	GE AZIMUTH	(mm) (m		33 175.38		38 160.44	25 183.12	_	14 37.57	34.93	96 18.24	66 12.57	68 3.41	49 322.78	70 342.71		_	17 229.52	57 346.52	01 348.07	42 359.12	56 2.53	30 358.01	30 27.35	94 25.13		<u></u>	_	
FI	RANGE	(mm)	93609	71433	149905	150938	27625	50748	164114	143799	142296	136666	112068	175549	203270	136321	108358	60417	17357	23401	31242	24956	12430	16230	13594	27997	32342	31001	29373
COORDINATES	¥	(mm)	-20639	5752	49925	50534	-1505	9495	100058	82334	44547	29731	9999	-106186	-60409	-129429	-98572	-45954	-4047	-4839	-482	1103	-432	7456	5772	773	-22414	-19729	-14902
COORI	×	(mm)	98124	78019	148165	149046	34402	02995	-123266	-111077	-128325	-126575	-105051	-132974	-187268	49616	51817	46041	-10061	-16077	-24421	-18114	- 5604	-7598	-5489	-21168	-16498	-17095	-18495
	BEAD						ĸ	8									2	~											
R	B																												
COLOR	CONCRETE BE		Z	z	N/B	N/B	ΣX	ζX	~	~	~	∝	~	~	~	K	~	æ	~	~	~	~	~	~	~	æ	~	~	~
								z		=	_				-	_	<u></u>							= :	155.5 R	-1			118.7 R

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

FROM GZ:	IE AZIMUTH	(mm) (-	9 335.90	5 349.95	358.64				8 0.74		359.00																	
FRO	RANGE	(mm)	29891	28729	29766	32272	33881	34597	34797	27278	29663	-	29836	29836 26517	29836 26517 25959	29836 26517 25959 26156	29836 26517 25959 26156 26577	29836 26517 25959 26156 26577 26797	29836 26517 25959 26156 26577 26797 26797	29836 26517 25959 26156 26577 26797 25637 25637	29836 26517 25959 26156 26577 2677 26797 25637 23034	29836 26517 25959 26156 26577 26797 25637 23034 23034	29836 26517 25959 26156 2677 26797 26797 25637 23034 24906 23547	29836 26517 25959 26156 2677 2677 2677 2637 2334 23034 23347 21375	29836 26517 25959 26156 2677 2677 2677 2637 23034 23034 23034 23034 21375 21375	29836 26517 25959 26156 2677 2677 26797 25637 23034 23034 23034 231375 21375 21375 21476 20984	29836 26517 25959 26156 2677 26797 26797 2797 24906 23034 23034 21375 21375 21986 20984	29836 26517 25959 26156 26777 26797 26797 25637 23034 23034 23547 21375 21375 21376 21376 21367	29836 26517 25959 26156 26777 26797 25637 23034 24906 23547 21375 21375 21375 21375 21375 21375 21375 21375 21375
COORDINATES	Y	(mm)	-8596	-11729	-5192	-765	5936	10858	16694	351	-519		-1912	- 1912 - 5989	-1912 -5989 -11215	-1912 -5989 -11215 -17454	- 1912 - 5989 - 11215 - 17454 - 17268	- 1912 - 5989 - 11215 - 17454 - 17268	-1912 -5989 -11215 -17454 -17268 -16316	-1912 -5989 -11215 -17454 -17268 -16316 -12510	- 1912 - 5989 - 11215 - 17454 - 17268 - 16316 - 12510 - 7825	- 1912 - 5989 - 11215 - 17454 - 17268 - 16316 - 12510 - 7825 - 10550 - 13150	- 1912 - 5989 - 11215 - 17454 - 17268 - 16316 - 12510 - 7825 - 10550 - 13150	- 1912 - 5989 - 11215 - 17268 - 16316 - 12510 - 7825 - 10550 - 13150 - 1491	-1912 -5989 -11215 -17454 -17268 -16316 -12510 -7825 -10550 -13150 -1491	- 1912 - 5989 - 11215 - 17454 - 17268 - 16316 - 12510 - 7825 - 10550 - 13150 - 1491 5347	- 1912 - 5989 - 11215 - 17454 - 17268 - 16316 - 12510 - 7825 - 10550 - 13150 - 1491 5347 - 1491	- 1912 - 5989 - 11215 - 17268 - 16316 - 12510 - 7825 - 10550 - 1491 5347 1434 - 251 - 1448	- 1912 - 5989 - 11215 - 17268 - 16316 - 12510 - 7825 - 10550 - 13150 - 1491 5347 1434 - 251 - 251
COORD	×	(mm)	-21810	-19408	-22492	-25445	-26538	-26031	-23713	-20458	-22841	-22956	1111	-19014	-19014 -16594	-19014 -16594 -12662	- 19014 - 16594 - 12662 - 13384	- 19014 - 16594 - 12662 - 13384 - 14440	- 19014 - 16594 - 12662 - 13384 - 14440 - 15559	- 19014 - 16594 - 12662 - 13384 - 14440 - 15559	- 19014 - 16594 - 12662 - 13384 - 14440 - 15559 - 15743	- 19014 - 16594 - 12662 - 1384 - 14440 - 15559 - 15743	- 19014 - 16594 - 12662 - 13384 - 1440 - 15559 - 15743 - 15743	- 19014 - 16594 - 12662 - 1384 - 14440 - 15559 - 14846 - 15743 - 15743 - 15715 - 15715	- 19014 - 16594 - 12662 - 13384 - 14440 - 15559 - 14846 - 15743 - 15743 - 15715 - 13982	- 19014 - 16594 - 12662 - 13384 - 14440 - 15559 - 15743 - 15743 - 15743 - 15715 - 14505 - 13982 - 13017	- 19014 - 16594 - 12662 - 13384 - 14440 - 15559 - 15759 - 15715 - 14505 - 13982 - 13982 - 13017	- 19014 - 16594 - 12662 - 13384 - 14440 - 15559 - 1846 - 15743 - 12715 - 12715 - 13982 - 13017 - 14165	- 19014 - 16594 - 12662 - 1384 - 14440 - 15589 - 15743 - 15743 - 15743 - 15743 - 15715 - 14505 - 14506 - 14601
X	BEAD							. 					_	- 															
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COLOR	CONCRETE		~	~	~	∝	~	~	~	~	~	۵	4	د د د	< & &	K K K K	< < < < < < < < < < < < < < < < < < <	K K K K K K	< < < < < < < < < < < < < < < < < < <	K	K	< < < < < < < < < < < < < < < < < < <	K R R R R R R R R R R R	<pre></pre>	K R R R R R R R R R R R R R		K R R R R R R R R R R R R R R R R	K R R R R R R R R R R R R R R R R R R R	
	WEIGHT CONCRETI	(gm)				 -		90.3 R		=		575 R	_																* R R R R R R R R R R R R R R R R R R R

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

FROM GZ:	AZIMUTH	(mm)	24.26	337.36	339.37	336.40	344.27	344.31	347.93	332.33	286.26	281.97	278.14	276.68	286.32	286.19	284.61	274.36	280.17	287.71	287.43	275.58	272.72	271.64	274.11	261.22	269.04	267.86	267.06	76137
FRO	RANGE	(mm)	12727	18962	16415	16070	16719	16021	13104	15632	23934	25419	26269	21521	13994	13717	13789	23044	12411	9862	10047	9702	9062	8355	7833	10191	11093	12022	11440	10030
COORDINATES	¥	(mm)	5229	-7300	-5783	-6432	-4532	-4332	-2740	-7260	-22978	-24867	-26004	-21375	-13430	-13173	-13343	-22977	-12216	-9395	-9586	-9656	-9052	-8351	-7813	-10072	-11092	-12013	-11425	30000
COORD	×	(mm)	-4785	- 10682	-8545	- 7908	-9275	9098-	9665-	-7026	118	1548	3099	4315	2884	2994	3341	2905	4627	3818	3808	5875	6388	6578	6257	8373	7004	7268	7405	0370
)R	BEAD			Ö						-						,				В						>				
COLOR	CONCRETE BEAD		R	-	x	ж	~	~	~	&	ĸ	м.	œ	~	R	K	x	м.	~		x	K	x	2	~		м.	α.	œ	
		(mg)		X	107.4 R	430.5 R			74.4 R	131.9 R	142.6 R	124.4 R	==-	125.9 R		181.6 R	-	==	-	X		156.7 R	98.2 R		272.4 R		2 <u></u>	1354.5 R		מ ישער

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

		COLOR	R	COORDINATES	INATES	FROM GZ:	GZ:
I.D. MARK	WEIGHT	CONCRETE	BEAD	×	¥	RANGE	AZIMUTH
	(gm)			(mm)	(mm)	(mm)	(mm)
350	297.6	R		9415	-10718	11028	256.38
354	120.2	~	>	6280	-26483	26488	271.16
400	103.9	×		-4139	1654	11081	8.58
405	168.9	×		-9091	-2206	16062	352.10
406	127.5	~	-	-9587	-1765	16500	353.86
408	129.0	×		-10266	-3641	17467	347.97
411	270.5	×		-6884	-7517	15629	331.25
412	111.9	×		-6957	-7798	15829	330.48
430	134.4	~		-33001	26378	47763	33.52
442	48.7	~		-2353	11485	14698	51.39
443	32.4	~		-2677	9694	13569	45.59
445	69.5	24		-3998	5691	12222	27.75
446	65.8	~		-6573	5762	14578	23.28
447	52.0	~		-6771	5442	14639	21.83
420	60.5	~		-6357	3153	13547	13.46
452	62.1	~	>	-7145	3327	14354	13.40
453	49.5	~		-7749	2340	14754	9.13
455	46.7	~		-10639	1704	17540	5.57
456	44.6	~		-11752	2460	18732	7.55
457	66.5	~		-10263	-376	17085	358.74
458	75.1	~		-10413	-403	17236	358.66
459	78.2	~		-9490	-763	16326	357.32
460	92.7	~		-6393	-934	13244	355.96
462	104.3	~		-5545	-532	12375	357.54
463	102.4	~		-4613	-2311	11662	348.57
466	9.68	~		-3135	-3415	10522	341.06
470	143.7	~		-4066	- 380	10891	358.00
643	171.5	Z.		-112803	31480	123694	14.74

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

GZ:	AZIMUTH	(mm)	14.43	13.00	323.69	22.03	343.13	308.95	302.64	283.45	271.37	271.85	356.49	346.91	32.31	135.32	37.44	4.13	342.43	320.76	342.23	249.60	233.86	219.42	154.67	150.02	148.22	184.98	178.87	164.93
FROMGZ	RANGE	(mm)	144734	158420	20992	33889	25642	30503	28729	27664	26772	24508	13823	17770	98283	10716	133031	95482	126697	190815	200853	90668	86731	79646	12690	24885	24715	48200	55827	28692
NATES	>-	(mm)	36057	35648	-12430	12709	-7442	-23722	-24191	-26906	-26764	-24496	-845	-4024	52535	7534	80882	6874	-38244	-120698	-61291	-84270	- 70039	-50572	5428	12433	13017	-4186	1103	7459
COORDINATES	×	(mm)	-133352	-147539	- 10098	-24597	-17720	-12358	6298-	384	6178	6059	6269-	-10490	-76245	14438	-98801	-88416	-113970	-140974	-184455	38150	57974	68347	18288	28374	27827	54836	62634	34523
R	BEAD			-				U		Ö				Ö				Ö	Ü				~			~	~	→	~	æ
COLOR	CONCRETE		24	24	R/B	R/B	R/B	R/B	R/B	R/B	R/B	R/B	R/B	R/B	R/B	R/B	RY	>	> -	>	>	>	>	>	>-	>	>	>	>-	>
	WEIGHT	(gm)	50.4	281.1	354.0	882.3	264.7	416.9	75.5	231.8	127.5	190.7	121.5	199.1	241.0	116.9	78.6	1065.7	181.1	164.9	119.0	391.2	199.7	1164.4	70.3	1125.1	527.4	11893.2	3845.2	7661.9
	I.D. MARK		644	645	131	157	227	232	233	315	355	356	404	407	427	475	4	∞	10	13	15	18	19	20	25	27	28	40	41	43

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

FROM GZ:	E AZIMUTH	_	172.34	176.88		197.28	191.52	7 190.72	197.61	199.83	7 202.31	5 201.13	189.26	198.80	187.61				9 225.66	_			 			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
FRC	RANGE	(mm)	27603	24311	29192	20713	28692	33077	26145	22214	22317	22416	14114	22500	33634	31440	47894	56648	65409		65164	65164	65164 63362 94663	65164 63362 94663 27121	65164 63362 94663 27121 29118	63164 63362 94663 27121 29118 30780	63164 63362 94663 27121 29118 30780	65164 63362 94663 27121 29118 30780 32079	65164 63362 94663 27121 29118 30780 32079 25111 25508	65164 63362 94663 27121 29118 30780 32079 25111 22508
COORDINATES	¥	(mm)	3677	1323	-10736	-6152	-5732	-6152	- 7909	-7536	-8472	-8081	-2272	-7253	-4451	-17952	-36695	-40053	-46784		-62264	-62264 -60944	-62264 -60944 -52611	-62264 -60944 -52611 -26827	-62264 -60944 -52611 -26827 -28994	-62264 -60944 -52611 -26827 -28994 -30731	-62264 -60944 -52611 -26827 -28994 -30731	-62264 -60944 -52611 -26827 -28994 -30731 -32056	-62264 -60944 -52611 -26827 -28994 -30731 -32056 -25111	-62264 -60944 -52611 -28994 -30731 -32056 -25111 -22178
COORL	×	(mm)	34175	31093	33965	26596	34932	39317	31738	27715	27465	72772	20748	28117	40156	32628	37597	46877	52530		26044	26044 24153	26044 24153 85515	26044 24153 85515 2834	24153 24153 85515 2834 4128	24153 24153 85515 2834 4128 5082	26044 24153 85515 2834 4128 5082 5588	24153 24153 85515 2834 4128 5082 5588 6830	24153 24153 85515 2834 4128 5082 5588 6830	24153 24153 85515 2834 4128 5082 5588 6830 10660
OR	BEAD		R		~		~			ĸ		æ	<u>~</u>						>	α/α —	2 2	<u> </u>	2	} 	2	2 >>>	2 >>>	2 >>> >	2 >>> >>	2 >>> >>
COLOR	CONCRETE		Υ	>	ᅪ	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	₹	· >-	· > >	·	·	·	·	·	·	·
	WEIGHT	(gm)	2079.4	2558.6	5376.3	433.5	174.6	225.6	314.2	1319.2	1548.1	1101.2	637.8	192.7	353.3	677.6	150.7	497.8	231.1	8 769	2:1:0	751.2	751.2 216.9	751.2 216.9 7248.4	751.2 216.9 7248.4 1061.4	751.2 216.9 7248.4 1061.4 2231.7	751.2 216.9 7248.4 1061.4 2231.7 502.6	751.2 216.9 7248.4 1061.4 2231.7 502.6 689.0	751.2 216.9 7248.4 1061.4 2231.7 502.6 689.0	751.2 216.9 7248.4 1061.4 2231.7 502.6 689.0 517.2
	I.D. MARK							===			-									-	==	- 00	- ec C	\	- M C - N	~ M O = 0 M	~ ~ ~ ~ ~ ~ ~ ~	~ M O = 01 M + 10	- W C - S W + 16 S	120 121 122 123 124 125 126 126

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

GZ:	AZIMUTH	(mm)	313.04	352.39	5.88	345.23	351.72	355.50	352.93	9.73	37.77	52.11	43.73	61.23	63.06	53.29	17.61	354.20	353.27	341.07	341.05	338.50	326.26	320.16	333.89	343.91	348.58	341.00	338.36	340.98
FROM GZ:	RANGE	(mm)	18089	26322	29230	40898	40379	14374	10693	13098	15413	16286	15551	26413	23865	37725	26930	47830	51600	55634	55624	51563	72222	68910	41178	36760	45388	47570	45014	27637
INATES	¥	(mm)	-13222	-3485	2993	10430	-5815	-1128	-1316	2214	9439	12853	10749	23152	21275	30242	8149	-4831	-6050	-18053	-18066	-18901	-40112	-44150	-18122	-10187	0668-	-15487	-16597	-9005
COORDINATES	×	(mm)	-5527	-19273	-22259	-32728	-33140	-7512	-3793	-6091	-5366	-3183	-4420	-5894	-3994	-15734	-18849	-40767	-44426	-45805	-45790	-41156	-53241	-46092	-30158	-28502	-37671	-38160	-35025	-19311
R	BEAD		В	U		Ů	Ö	>	*-		>				>	В		Ö	Ö			_								G
COLOR	CONCRETE		Å	>-	>	>	>	>	>	>	>	>	>-	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	⊁
	WEIGHT	(gm)	3978.0	868.9	1187.4	661.2	6.669	429.9	441.0	426.7	510.2	702.9	699.5	290.4	9.86	130.7	365.7	340.0	666.1	197.9	81.5	261.5	297.9	757.6	529.5	108.0	92.4	188.4	67.6	109.6
	I.D. MARK		130	137	143	147	148	159	161	162	166	167	168	169	170	171	173	177	178	184	185	186	190	191	195	196	199	200	201	209

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

		COLOR	R	COORDINATES	INATES	FROM GZ	GZ:
I.D. MARK	WEIGHT	CONCRETE	BEAD	×	X	RANGE	AZIMUTH
	(gm)			(mm)	(mm)	(mm)	(mm)
===	141.4	Å		-20336	-8478	28447	342.66
	77.8	>	В	-25714	-2797	32652	355.09
	108.8	>		-32427	9761	40440	13.97
	124.7	>		-22666	-1967	29550	356.18
	105.5	>		6663	-25237	28612	298.11
==	101.8	>-		-9613	-18471	24722	311.66
	139.4	>		-15146	-230	21965	359.40
	83.1	>	Ů	-14786	1600	21663	4.23
-	219.7	>		-15377	3698	22501	9.46
	93.2	>		-11777	-821	18613	357.47
	128.0	>		-10319	2571	17329	8.53
	118.2	>	>	-5726	4218	13235	18.59
	212.7	>		-4403	5949	12701	27.93
	386.2	>		-4169	1630	11107	8.44
	190.8	>		-7559	-18547	23467	307.78
= ::=	147.9	> -		-7115	-17891	22676	307.91
	184.5	>-		-7485	-11611	18423	320.93
===	163.0	>	\	- 7049	-11689	18136	319.87
=	595.2	>-	Ů	-9348	-7762	17933	334.35
	182.3	>	>	-7374	-5525	15230	338.73
	65.0	>		-7074	-2897	14191	348.22
	159.4	>		-6148	-3052	13320	346.76
	383.0	>	O	-69p4	-7562	15667	331.14
	245.6	>		-3041	-20873	23084	295.28
	609.5	>		-1713	-21825	23433	291.35
	755.4	>		-828	-22399	23668	288.85
	275.4	>		-584	-23071	24230	287.79
	124.4	Υ		-457	-22852	23982	287.66

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

		COLOR	R	COORDINATES	NATES	FROM GZ.	GZ:
I.D. MARK	WEIGHT	CONCRETE	BEAD	×	Y	RANGE	AZIMUTH
	(gm)			(mm)	(mm)	(mm)	(mm)
304	125.5	γ	Y	-24	-23399	24379	286.30
305	449.1	>	>	-302	-23285	24349	287.00
306	2372.3	>-	>	-2074	-23100	24752	291.05
307	299.5	>		-2786	-26880	28544	289.66
308	1145.9	>-	→	-1881	-29577	30830	286.39
309	191.0	>		-1290	-30302	31368	284.98
310	243.4	>	>	-1328	-34094	35054	283.44
311	2036.6	>-	Y/B	145	-31009	31719	282.14
312	281.5	>-		3081	-32908	33119	276.48
313	220.5	>		3764	-36494	36621	274.78
314	152.8	>-		2594	-25151	25503	279.53
316	403.6	>	>	1224	-23392	24052	283.45
317	298.8	>	3	1584	-23235	23817	282.69
320	274.9	>	>	2882	-23092	23425	279.67
321	450.4	>	>	2833	-22765	23111	279.93
322	386.6	>		3594	-22303	22535	278.22
323	127.2	>		3247	-23377	23649	278.68
326	651.4	>	>	4072	-20936	21115	277.47
328	207.0	>		4334	-21714	21856	276.53
342	288.4	>	R/B	7346	-11454	11466	267.36
347	183.8	>		6144	-10634	10655	273.63
351	194.2	>		9161	-12689	12903	259.54
352	214.3	>		8789	-12745	12897	261.21
353	5669.9	>	œ	8941	-23849	23944	264.91
358	267.1	>		10027	-9685	10203	251.67
359	162.1	>		10170	-9732	10293	250.99
360	231.5	>	В	14025	-8441	11099	229.51
361	183.1	>		15224	-12043	14686	235.09

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

FROM GZ:	RANGE AZIMUTH		14905 240.65	16830 191.16	21976 189.84	22504 175.14	18410 171.02	26496 83.12	25520 78.59	25452 74.95	27012 70.40		22001 71.78													~	C) (2)	en en en	es es es
VATES	_) (mm)		-3258	-3756 2		2873 1	26305 2					<u></u>			 -													
COORDINATES	×	(mm)	14124	23329	28470	29241	25003	3643	1771	207	-2242	-2694	-62		-153	-153 5262	-153 5262 2384	- 153 5262 2384 5941	- 153 5262 2384 5941 - 268	- 153 5262 2384 5941 - 268 10549	- 153 5262 2384 5941 - 268 10549	- 153 5262 2384 5941 - 268 10549 9086	- 153 5262 2384 2941 - 268 10549 9086 - 6559	- 153 5262 2384 2941 - 268 10549 9086 - 6559 - 6441	- 153 5262 2384 5941 - 268 10549 9086 - 6559 - 6441	- 153 5262 2384 5941 - 268 10549 9086 - 6559 - 6441 - 3387	- 153 5262 2384 5941 - 268 10549 9086 - 6559 - 6441 - 3387 - 2801	- 153 5262 2384 2384 - 268 10549 9086 - 6559 - 6441 - 3387 - 2801 - 2801	- 153 5262 2384 2384 - 268 10549 9086 - 6559 - 6441 - 3387 - 2801 - 11450 - 3166
R	BEAD					~		≻	>							>	>	> >	>	> >>	» ≻≻ æ	» ≻≻ ¤	» ≻≻ æ	× ×× ~	0 × B × × ×	0 × B × ×	у у В У У У	> >> m	0 0× m ×× ×
COLOR	CONCRETE BEAD		¥	>	>	Α α	>	\ \	>	>	>	>	>	-	>	>	> > > > >	> > >	> 	>	A B <p< td=""><td></td><td>></td><td><pre></pre></td><td>の</td><td>ウ< m << < イ</td><td>> >></td><td>ひ ひく B イベ ス イススススススススス</td><td>り ひょ B スペ ス マート・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・</td></p<>		>	<pre></pre>	の	ウ< m << < イ	> >>	ひ ひく B イベ ス イススススススススス	り ひょ B スペ ス マート・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
		(gm)	178.6 Y	135.8 Y	584.8 Y	375.6 Y R	136.0 Y	780.2 Y Y	.2 🗡	107.5 Y	553.2 Y	141.4 Y	3942.7 Y		186.7 Y	186.7 Y 1105.0 Y Y	186.7 Y 1105.0 Y Y 984.5 Y	186.7 Y 1105.0 Y Y 984.5 Y 689.4 Y Y	186.7 Y 1105.0 Y Y 984.5 Y 689.4 Y Y 327.1 Y	186.7 Y 1105.0 Y Y 984.5 Y Y 689.4 Y Y 327.1 Y Y 571.8 Y	>>>>>	×××××××	××××××××	××××××××××××××××××××××××××××××××××××××	××××××××××××××××××××××××××××××××××××××	××××××××××××××××××××××××××××××××××××××	××××××××××××××××××××××××××××××××××××××	***************************************	*************************************

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

1001100	┤	COOKDINALES	NAIES	FROM GZ	
CONCRETE	ETE BEAD	×〔	> (RANGE	AZIMUTH
		(mm)	(mm)	(mm)	(mm)
> - 1	5	-84781	10143	92159	6.32
>		-56027	15545	64739	13.89
>		-73531	20466	82915	14.29
>		-95569	47411	112831	24.85
>		-52538	35008	68911	30.53
>		-67991	11561	75697	8.78
>	>	-2827	17753	20204	61.49
>		-2390	20698	22654	66.02
>		-3187	20337	22665	63.80
>		-1394	16189	18152	63.10
>	>	-278	17324	18721	67.73
>		130	18429	19605	70.05
>		1393	18406	19189	73.58
>		-1379	19204	20881	88.99
>	>	-3232	15668	18614	57.32
>	>-	-2676	13428	16445	54.74
>		-2231	9104	12836	45.18
>		- 5607	3288	12853	14.82
>	Ö	-4386	-4543	12090	337.93
>		-3118	-2007	10137	348.58
>	>	-2945	4914	10930	26.72
> -		-1976	7001	11241	38.52
>		1127	11095	12469	62.85
>	>	2726	7759	8772	62.19
>		27565	-2902	20949	187.96
>		35460	-5348	29137	190.58
>		38898	1906	32137	176.60
Y	:	37159	9030	31657	163.43

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

FROM GZ:	RANGE AZIMUTH	(mm) (mm)		47309 181.99	40385 171.66	18815 74.71		36493 188.78	37192 185.55	37458 184.66	39015 168.44		41824 177.01	54365 181.31	62384 166.24	57700 165.39	79974 169.90	79868 169.88			80389 178.99	97473 179.72	108842 181.28	115131 180.74	15279 192.91	30817 130.37	26506 182.97	24467 180.68	21410 170.32	15194 218.92
ATES	Y	(mm)	12889		5861	18150		-5569		···						14555	-		13556		1410	483	-2433 1			23478		-	3601	-72362 1
COORDINATES	×	(mm)	40052	54098	46776	1858	37243	42884	43836	44152	45042	48359	48585	61169	67411	62652	85553	85444	86462	62668	87194	104289	115633	121940	119183	26780	33289	31283	27923	96446
R	BEAD					>			2 			3		ĸ	ĸ	ĸ	ĸ	X					~			>	-		~	
COLOR	CONCRETE BEAD		Å	>	7	∀	~	~	>	>	>	>	>	Α Ν	Υ κ	Y	Υ α	Α α	>	>	>	~	Υ α	>	>	>	>	>	×	>
	L	(gm)	392.8 Y	356.8 Y	127.0 Y	3020.9 Y Y	126.6 Y	316.3 Y	517.1 Y	72.2 Y	798.1 Y	V 619.0	154.5 Y	>	>	215.0 Y R	>	467.1 Y R	388.2 Y	209.1 Y	6137.4 Y	376.1 Y	> -	121.0 Y	Y 8.9	202.5 Y Y	119.1 Y	V 9.66	>	190.1 Y

PAS-3 CONCRETE DEBRIS COLLECTION SURVEY SORTED BY COLOR OF CONCRETE

		COLOR	R	COORDINATES	INATES	FROM GZ:	GZ:
I.D. MARK	WEIGHT	CONCRETE	BEAD	×	¥	RANGE	AZIMUTH
	(mg)			(mm)	(mm)	(mm)	(mm)
629	414.0	¥		82501	-65424	100041	220.84
630	0.69	> -		76582	- 56624	89851	219.06
631	145.5	>	ĸ	60159	-45067	69831	220.19
634	129.5	>		77741	- 16092	72725	192.78
635	144.1	>	ĸ	80409	- 16088	75329	192.33
642	6.68	>		-78326	32074	90985	20.64
646	139.4	>		-157246	38657	168557	13.26